Analytical Data Package Prepared For

Fluor Hanford

Radiochemical Analysis By

EDMC

TestAmerica TARL

2800 G.W. Way, Richland Wa, 99354, (509)-375-3131.

Data Package Contains

Report Nbr: 39341

D BATCH	0 8134494	0 8134494	0 8134497	0 8134482	0 8134483	0 8134497	0 8134482	0 8134483	0 8134497	0 8134482	0 8134483	0 8134497	0 8134482	0 8134483	10 8126529
RPT DB ID	9KME2Q10	9KME2T10	9KME2V10	9KME2V10	9KME2V10	9KME2010	9KME2010	9KME2010	9KME2210	9KME2210	9KME2210	9KME2710	9KME2710	9KME2710	9KMKW310
WORK ORDER	KME2Q1AA	KME2T1AA	KME2V1AA	KME2V1AC	KME2V1AD	KME201AA	KME201AC	KME201AD	KME221AA	KME221AC	KME221AD	KME271AA	KME271AC	KME271AD	KMKW31AA
LOT Nbr	J8E010326-1	J8E010326-2	J8E010329-1	J8E010329-1	J8E010329-1	J8E010329-2	J8E010329-2	J8E010329-2	J8E010329-3	J8E010329-3	J8E010329-3	J8E010329-4	J8E010329-4	J8E010329-4	J8E050200-1
CLIENT ID NUMBER	BIT3L4	BIT3L5	B1VC18	BIVC18	BIVC18	BIVC19	BIVC19	BIVC19	B1VC21	BIVC21	BIVC21	B1VC29	BIVC29	B1VC29	B1TW29
SDG Nbr ORDER Nbr	108-023		108-025												108-032
SDG Nbr	W05392														

Comments:

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH	
W05392	108-032	BITW29	J8E050200-1	KMKW31AC	9KMKW310	8134497	ĺ
		BITW29	J8E050200-1	KMKW31AD	9KMKW310	8134482	
		B1TW29	J8E050200-1	KMKW31AE	9KMKW310	8134483	
		B1TW29	J8E050200-1	KMKW31AJ	9KMKW310	8134490	
	S08-004	B1TWH4	J8E050216-1	KMK2R1AA	9KMK2R10	8134497	
		B1TWH4	J8E050216-1	KMK2R1AC	9KMK2R10	8134482	
		B1TWH4	J8E050216-1	KMK2R1AD	9KMK2R10	8134483	
		B1TWH4	J8E050216-1	KMK2R2AE	9KMK2R20	8161360	
		B1TWH4	J8E050216-1	KMK2R2AF	9KMK2R20	8155308	
		BIVC42	J8E050216-2	KMK211AA	9KMK2110	8134497	
		B1VC42	J8E050216-2	KMK211AC	9KMK2110	8134482	
		BIVC42	J8E050216-2	KMK211AD	9KMK2110	8134483	
		B1TWJ2	J8E050216-3	KMK251AA	9KMK2510	8134497	
		BITWJ2	J8E050216-3	KMK251AC	9KMK2510	8134482	
		BITWJ2	J8E050216-3	KMK251AD	9KMK2510	8134483	
		BITWJ2	J8E050216-3	KMK251AE	9KMK2510	8134494	
		B1TX06	J8E050216-4	KMK3R1AA	9KMK3R10	8134497	
		B1TX06	J8E050216-4	KMK3R1AC	9KMK3R10	8134482	
		B1TX06	J8E050216-4	KMK3R1AD	9KMK3R10	8134483	
		B1TX06	J8E050216-4	KMK3R1AE	9KMK3R10	8134494	
		B1TX06	J8E050216-4	KMK3R1AF	9KMK3R10	8134492	
	W08-004	B1V122	J8E050219-1	KMK361AA	9KMK3610	8134499	
		B1V122	J8E050219-1	KMK361AC	9KMK3610	8134496	
	108-032	B1TW23	J8E070109-1	KMNC51AA	9KMNC510	8134492	
	108-036	B1VC57	J8E070111-1	KMINC81AA	9KMNC810	8134497	
		B1VC57	J8E070111-1	KMNC81AD	9KMINC810	8134492	

	OLIVER INDI	CEIEN ID NOMBER	TOT IND				
W05392	108-036	BIVC57	J8E070111-1	KMNC82AC	9KMNC820	8161360	
	S08-004	BITWY8	J8E070113-1	KMNDE1AA	9KMNDE10	8134494	
		B1TWY8	J8E070113-1	KMNDE1AC	9KMNDE10	8134492	
		BITWRI	J8E070113-2	KMNDG1AA	9KMNDG10	8134491	
		BITWRI	J8E070113-2	KMNDG1AC	9KMNDG10	8134492	
		BITX39	J8E070113-3	KMNDL1AA	9KMNDL10	8134497	
		BITX39	J8E070113-3	KMNDLIAC	9KMNDL10	8134482	
		BITX39	J8E070113-3	KMINDL1AD	9KMNDL10	8134483	
		BITX39	J8E070113-3	KMNDL1AE	9KMNDL10	8134493	
		BITX39	J8E070113-3	KMNDL1AG	9KMNDL10	8134496	
		BITX39	J8E070113-3	KMNDL2AF	9KMNDL20	8155308	
		BITWF3	J8E070115-1	KMNEL1AA	9KMNEL10	8134497	
		BITWF3	J8E070115-1	KMNELIAC	9KMNEL10	8134482	
		BITWF3	J8E070115-1	KMNEL1AD	9KMNEL10	8134483	
		BITWF3	J8E070115-1	KMNEL2AF	9KMNEL20	8155308	
		BITWF3	J8E070115-1	KMNEL3AE	9KMNEL30	8161360	
		B1TWF4	J8E070115-2	KMNE31AA	9KMNE310	8134497	
		B1TWF4	J8E070115-2	KMNE31AC	9KMNE310	8134482	
		B1TWF4	J8E070115-2	KMNE31AD	9KMNE310	8134483	
		B1TWF4	J8E070115-2	KMNE32AE	9KMNE320	8161360	
		B1TWF4	J8E070115-2	KMNE32AF	9KMNE320	8155308	
		BITWF0	J8E070115-3	KMNE61AA	9KMNE610	8134482	
		BITWF0	J8E070115-3	KMNE61AC	9KMNE610	8134483	
		BITWF0	J8E070115-3	KMNE61AE	9KMNE610	8134492	
		BITWF0	J8E070115-3	KMNE62AD	9KMNE620	8161360	
		B1TWF0	J8E070115-3	KMNE62AF	9KMNE620	8155308	



Certificate of Analysis

Fluor Hanford 1200 Jadwin Ave. Richland, WA 99352

June 20, 2008

Attention: Steve Trent

SAF Number : 108-023, 108-025, 108-032, S08-004, W08-004

I08-036,

Date SDG Closed : May 6, 2008 Number of Samples : Twenty (20) Sample Type : Water

SDG Number : W05392

Data Deliverable : 45-Day / Summary

CASE NARRATIVE

I. Introduction

Between May 1, 2008 and May 6, 2008 twenty water samples were received at STL Richland (STLR) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Fluor Hanford specific IDs:

PGW ID#	STLR ID#	DATE OF RECEIPT	MATRIX
B1T3L4	KME2Q	5/01/08	WATER
B1T3L5	KME2T	5/01/08	WATER
B1VC18	KME2V	5/01/08	WATER
B1VC19	KME20	5/01/08	WATER
B1VC21	KME22	5/01/08	WATER
B1VC29	KME27	5/01/08	WATER
B1TW29	KMKW3	5/05/08	WATER
B1TWH4	KMK2R	5/05/08	WATER
B1VC42	KMK21	5/05/08	WATER
B1TWJ2	KMK25	5/05/08	WATER
B1TX06	KMK3R	5/05/08	WATER
B1V122	KMK36	5/05/08	WATER
B1W23	KMNC5	5/06/08	WATER

B1VC57	KMNC8	5/06/08	WATER	
B1TWY8	KMNDE	5/06/08	WATER	
B1TWR1	KMNDG	5/06/08	WATER	
B1TX39	KMNDL	5/06/08	WATER	
B1TWF3	KMNEL	5/06/08	WATER	
B1TWF4	KMNE3	5/06/08	WATER	
B1TWF0	KMNE6	5/06/08	WATER	
	M 404. (445. (445.)		***************************************	

II. Sample Receipt

The samples were received in good condition and no anomalies were noted during check-in.

III. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information, analytical results and the appropriate associated statistical errors.

The requested analyses were:

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014 Gross Beta by method RICH-RC-5014

Strontium-90 by method RICH-RC-5006

Gamma Spectroscopy

Gamma Spec (LL) by method RICH-RC-5017

Gamma Spec by method RICH-RC-5017

Iodine-129 (LL) by method RICH-RC-5025

Iodine-129 by method RICH-RC-5025

Liquid Scintillation Counting

Technetium-99 by TEVA method RICH-RC-5065

Technetium-99 by method RICH-RC-5078

Tritium by method RICH-RC-5007

Carbon-14 by method RICH-RC-5022

Laser Induced Phosphorimetry

Total Uranium by method RICH-RC-5058

Chemical Analysis

Hexavalent Chromium by EPA method 7196A

IV. Quality Control

The analytical results for each analysis performed includes a minimum of one laboratory control sample (LCS), one method (reagent) blank, and one duplicate sample analysis. Any exceptions have been noted in the "Comments" section.

QC and sample results are reported in the same units.

V. Comments

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:

The LCS, batch blank, samples and sample duplicate (B1VC18) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:

The LCS, batch blank, samples and sample duplicate (B1VC19) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006

The LCS, batch blank, samples and sample duplicate (B1TW23) results are within contractual requirements.

Gamma Spectroscopy

Gamma Spec (LL) by method RICH-RC-5017:

There was insufficient volume for a duplicate. Sample B1TWR1 was recounted on a different detector for the duplicate (B1TWR1 DUP). Except as noted, the LCS, batch blank, sample and sample duplicate (B1TWR1) results are within contractual requirements.

Gamma Spec by method RICH-RC-5017:

There was insufficient volume for a duplicate. Sample B1TW29 was recounted on a different detector for the duplicate (B1TW29 DUP). Except as noted, the LCS, batch blank, sample and sample duplicate (B1TW29) results are within contractual requirements.

Iodine-129 (LL) by method RICH-RC-5025:

The LCS, batch blank, samples and sample duplicate (B1T3L4) results are within contractual requirements.

Iodine-129 by method RICH-RC-5025:

The LCS, batch blank, sample and sample duplicate (B1TX39) results are within contractual requirements.

Liquid Scintillation Counting

Technetium-99 by TEVA method RICH-RC-5065:

The samples had to be recounted because the TSIE was out; the recount data is acceptable. Except as noted, the LCS, batch blank, samples, sample duplicate (B1TWF4), and sample matrix spike (B1TWF0) results are within contractual requirements.

Technetium-99 by method RICH-RC-5078:

The LCS, batch blank, samples, sample duplicate (B1V122), and sample matrix spike (B1V122) results are within contractual requirements.

Fluor Hanford June 20, 2008

Tritium by method RICH-RC-5007:

The LCS, batch blank, samples and sample duplicate (B1VC57) results are within contractual requirements.

Carbon-14 by method RICH-RC-5022:

Sample B1TWF3 and the sample duplicate (B1TWF3 DUP) was recounted but, still did not show sufficient agreement. The entire batch was reanalyzed with acceptable results. Except as noted, the LCS, batch blank, samples and sample duplicate (B1TWF3) results are within contractual requirements.

Total Uranium

Total Uranium by method RICH-RC-5058:

The LCS, batch blank, samples, sample duplicate (B1TX39), and sample matrix spike (B1V122) results are within contractual requirements.

Chemical Analysis

Hexavalent Chromium by EPA method 7196A

The LCS, batch blank, sample, sample duplicate (B1TW29), sample matrix spike (B1TW29), and matrix spike duplicate (B1TW29) results are within contractual requirements.

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager, or a designee as verified by the following signature.

Reviewed and approved:

Sandra Seger

Project Manager

Drinking Water Method Cross References

	DRINKING WATER ASTM M	ETHOD CROSS REFERENCES
Referenced Method	Isotope(s)	TestAmerica Richland's SOP N
EPA 901.1	Cs-134, I-131	RICH-RC-5017
EPA 900.0	Alpha & Beta	RICH-RC-5014
EPA 00-02	Gross Alpha (Coprecipitation)	RICH-RC-5021
EPA 903.0	Total Alpha Radium (Ra-226)	RICH-RC-5027
EPA 903.1	Ra-226	RICH-RC-5005
EPA 904.0	Ra-228	RICH-RC-5005
EPA 905.0	Sr-89/90	RICH-RC-5006
ASTM D5174	Uranium	RICH-RC-5058
EPA 906.0	Tritium	RICH-RC-5007

Results in this report relate only to the sample(s) analyzed.

Uncertainty Estimation

TestAmerica Richland has adopted the internationally accepted approach to estimating uncertainties described in "NIST Technical Note 1297, 1994 Edition". The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, R = constants * f(x,y,z,...). The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_e) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/?n), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

Report Definitions

	Report Definitions
Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or TestAmerica.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
Total Uncert (#s) uc_Combined Uncertainty.	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, u_c the combined uncertainty. The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or TestAmerica "default" nominal detection limit. Often referred to the reporting level (RL)
Le	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. Lc=(1.645 * Sqrt(2*(BkgrndCnt/BkgrndCntMin)/SCntMin)) * (ConvFct/(Eff*Yld*Abn*Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. MDC = (4.65 * Sqrt((BkgrndCnt/BkgrndCntMin)/SCntMin) + 2.71/SCntMin) * (ConvFct/(Eff * Yld * Abn * Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the Work Order Number.
RER	The equation Replicate Error Ratio = (S-D)/[sqrt(TPUs ² + TPUd ²)] as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by TestAmerica upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

TESTAME	RICA

FormNbr: R FormatType: FEAD	Version: 05	-	100 mm							2000		(Mileton
Client Test Id: User B1VC19 Analyte CAS# H-3 10028-17-8 A1 PHA 12587-46-1		n: 05	Rpt N	Rpt Nbr. 39341	Œ	le Name: h	:\Reportdb\	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	92.Edd, n:\Reg	portdb/ec	ld\FeadIV\Rad\39341.t	8
Analyte CAS# H-3 10028-17-8 AI PHA 12587-46-1	Contract SAF N Nbr MW6-SBB-A1 108-025	SAF Nbr 08-025	Sdg Nbr: W05392	D Type:		Moisture/ Solids%*:	Distilled	Sample On Date:		Col 1 05/01/2	Collection Date: 05/01/2008 10:38	
AI PHA 12587-46-1	Result 4.81E+02	Unit C	CntU 2S 1.2E+02	Totu 2S (Ous	MDA TrcYlelo 2.52E+02 100.0	TrcYleld 2 100.0	Method 906.0 H3 LSC	Alq Size 5.00E-03	Unit	Analy Date/Time 05/30/2008 04:23	- ¥
	8.46E-01		7.9E-01	8.1E-01	5	1.19E+00 100.0	100.0	9310_ALPHABETA		_	06/10/2008 14:15	-
8134483 BETA 12587-47-2 4.	4.05E+00	pCi/L 1	1.6E+00	1.7E+00		2.90E+00 100.0	100.0	9310_ALPHABETA	2.003E-01	ب	06/10/2008 14:29	_
Client Test Id: User		SAF Nbr	Sdg Nbr:	QC Type:		Moisture/ Solids%*:	Distilled	Sample On Date:		8	Collection Date:	
SKMEZZIO BIVCZI MW6	MW6-SBB-A1	108-025	VUDSBZ							710/00	05/01/2008 11:40	
Analyte CAS#	Result	•			Qual	MDA	TrcYield	Method	Alq Size	ž	Analy Date/Time	Act
H-3 10028-17-8	2.53E+03		1.8E+02	2.2E+02		2.54E+02 100.0	100.0	906.0_H3_LSC		_	05/30/2008 05:46	_
8134482 ALPHA 12587-46-1 1.	1.78E+00	PCI/L	1.3E+00	1.3E+00		1.62E+00 100.0	100.0	9310_ALPHABETA	2.001E-01	_	06/10/2008 14:15	_
8134483 BETA 12587-47-2 7.	7.22E+00	pCi/L 1	1.7E+00	2.0E+00		2.68E+00 100.0	100.0	9310_ALPHABETA	2.002E-01	_	06/10/2008 14:29	_
Lab Client Test Co Sample Id: Id: User	Contract	SAF Nbr	Sdg	2 S		Moisture/ Solids%*:	Distilled	Sample On Date:		8	Collection Date:	
B1VC29	MW6-SBB-A1 108-025	08-025	W05392							05/01/2	05/01/2008 12:23	
Analyte CAS#	Result	Unit	CntU 2S	Totu 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8134497 H-3 10028-17-8 1.	1.22E+03	PCI/L 1	1.5E+02	1.7E+02		2.53E+02 100.0	100.0	906.0_H3_LSC	5.00E-03	_	05/30/2008 07:08	_
8134482 ALPHA 12587-46-1 2.	2.22E+00	pCi/L 1	1.4E+00	1.4E+00		1.47E+00 100.0	100.0	9310_ALPHABETA	2.001E-01	_	06/10/2008 14:15	_
8134483 BETA 12587-47-2 5.	5.38E+00	PCi/L 1	1.6E+00	1.7E+00		2.59E+00 100.0	100.0	9310_ALPHABETA	2.00E-01	7	06/10/2008 14:29	_
Lab Client Test Co	Contract	SAF Nbr	Sdg	20.5		Moisture/	Distilled	Sample		8	Collection Date:	
B1T3L4	MW6-SBB-A1 108-023	08-023	W05392							04/29/	04/29/2008 08:00	
Analyte CAS#	Result	Unit	CutU 2S	Totu 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8134494 I-129L 15046-84-1 1.	1.66E-02	pCi/L 1	1.4E-01	1.4E-01	D	2.69E-01	88.9	1129LL_SEP_LEPS 3.8702E+00	3.8702E+00	_	06/05/2008 17:48	_
Lab Cilent Test Co Sample Id: Id: User	Contract	SAF Nbr	Sdg	Jype:	i	Moisture/ Solids%::	Distilled	Sample On Date:		8	Collection Date:	
B1T3L5	MW6-SBB-A1 108-023	08-023	W05392							04/29/	04/29/2008 08:00	
Analyte CAS#	Result	Unit	CntU 2S	Totu 2S	Qual	MDA	TrcYield	Method	Alq Size	S	Analy Date/Time	Act
8134494 I-129L 15046-84-1 3	3.41E-02	pCi/L 1	1.2E-01	1.2E-01	ם	2.44E-01 89.7	89.7	1129LL_SEP_LEPS 3.884E+00	3.884E+00	_	06/05/2008 17:50	_
Lab Client Test Co Sample Id: Id: User	Contract	SAF Nbr	Sdg	2 2		Moisture/ Solids**:	Distilled	Sample On Date:		8	Collection Date:	
B1VC18	MW6-SBB-A1 108-025	08-025	W05392							05/01/2	05/01/2008 09:16	

ES	TAN	ER	Ι	CA	

9/19/2008	6/19/2008 5:37:32 PM	Me			I	TestAmerica	rica	Report	+			-	Lab Code: TARL	
FormNbr: R	α.	FormatType: FEAD		Version: 05	Rpt N	Rpt Nbr: 39341	-	ile Name:	h:\Reportdb\	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	392.Edd, h:\Rep	ortdb/ed	d\FeadIV\Rad\3934	1.Edd
Batch	Analyte	CAS#	Result		CmtU 2S	TotU 2S	Orial	MDA	TrcYield	Method	Alq Size	Cait	Analy Date/Time	Act
8134497	±3	10028-17-8	2.15E+03		1.7E+02	2.1E+02		2.52E+02 100.0	2 100.0	906.0_H3_LSC	5.00E-03	J	05/30/2008 03:01	-
8134482	ALPHA	12587-46-1	1.21E+00	DCI/L	1.0E+00	1.1E+00	>	1.55E+00 100.0	0.001 0	9310_ALPHABETA	1 2.00E-01	_	06/10/2008 14:15	15
8134483	BETA	12587-47-2	4.76E+00	pCi/L	1.7E+00	1.8E+00		3.05E+00 100.0	0.001 0	9310_ALPHABETA 2.003E-01	2.003E-01	١	06/10/2008 14:29	59
Lab Sample Id:	Client Id:	Test User	Contract	SAF Nb	or Sdg Nbr:	Type:		Moisture/ Solids%*:	Distilled	Sample On Date:		8 -	Collection Date:	
9KMK2110	B1VC42	2	MW6-SBB-A1	1 S08-004	W05392	T. F.						05/05/2	05/05/2008 12:24	
Batch	Analyte	CAS#	Result	Cnit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8134497	H-3	10028-17-8	1.11E+03	bCi/L	1.4E+02	1.6E+02		2.52E+02 100.0	2 100.0	906.0_H3_LSC	5.00E-03	۔	05/30/2008 11:14	
8134482	ALPHA	12587-46-1	1.91E+00	pCi/L	1.2E+00	1.3E+00		1.44E+00 100.0	0.001 0	9310_ALPHABETA	2.001E-01	_	06/10/2008 15:17	17 1
8134483	BETA	12587-47-2	1.96E+01	PCI/L	2.5E+00	3.5E+00		3.00E+00 100.0	0.001 0	9310_ALPHABETA 2.001E-01	2.001E-01	_	06/10/2008 14:29	- 62
Lab Samole Id:	Client Ed:	Test	Contract	SAF Nbr	Sdg ro	20,5		Moisture/	Distilled	Sample		8	Collection	
	B1TWJ2		MW6-SBB-A1	1 S08-004	Š							05/05/2	05/05/2008 11:01	
Batch	Analyte	CAS#	Result		CntU 2S	TotU 2S	Oral	MDA	TrcYield	Method	Ald Size	Chit	Analy Date/Time	Ac
8134497	H-3	10028-17-8	-1.09E+01	1 pCi/L	1.0E+02	1.1E+02	_	2.53E+02 100.0	2 100.0	906.0 H3 LSC	5.00E-03	_	05/30/2008 12:36	
8134482	ALPHA	12587-46-1	1.51E+00	pCi/L	1.1E+00	1.1E+00		1.39E+00 100.0	0.001 0	9310_ALPHABETA	1.852E-01	ب	06/10/2008 15:17	17
8134483	BETA	12587-47-2	8.18E+00	pCi/L	1.9E+00	2.1E+00		2.86E+00 100.0	0.001 0	9310_ALPHABETA 2.003E-01	2.003E-01	_	06/10/2008 14:29	- 63
8134494	I-129L	15046-84-1	-1.12E-01	pCI/L	1.3E-01	1.3E-01	5	2.11E-01	8.06	1129LL_SEP_LEPS	3.8101E+00	_	06/05/2008 19:57	1 29
4	Client	Test	Contract	SAF Nb		8		Moisture/	Distilled	Sample		Col	Collection	
Sample Id:	id:	User	Nor					iids%::	Volume				Date:	
	DI WIT		MW6-SBB-AT	208-004								05/05/2	05/05/2008 11:33	
Batch	Analyte	CAS#	Result		CntU 2S		Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8134497	±3	10028-17-8	3.72E+03		2.1E+02	2.7E+02		2.52E+02 100.0	2 100.0	906.0_H3_LSC	5.00E-03	_	05/30/2008 09:52	22
8134482	ALPHA	12587-46-1	1.14E+00	pCi/L	9.0E-01	9.3E-01	-	1.29E+00 100.0	0.001	9310_ALPHABETA	2.002E-01	_	06/10/2008 15:17	17
8134483	BETA	12587-47-2	7.23E+00	l pCi/L	1.7E+00	2.1E+00		2.74E+00 100.0	0.001 0	9310_ALPHABETA 2.003E-01	2.003E-01	_	06/10/2008 14:29	1 62
Lab Sample 14:	Client	Test	Contract	SAF Nbr	or Sdg	8		Moisture/	Distilled	Sample		100	Collection	
9KMKZR20 B1TWH4	B1TWH4		MW6-SBB-A1 S08-004	S08-004	Š							05/06/2	05/06/2008 12:34	
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alg Size	Guit	Analy Date/Time	Act
8161360	C-14	14762-75-5	2.18E+02		8.1E+00	1.2E+01		8.20E+00 100.0	0.001 0	C14_LSC	2.00E-01	_	06/16/2008 21:51	
8155308	TC-99	14133-76-7	5.21E+00	pCi/L	4.2E+00	6.1E+00	כ	9.88E+00 100.0	0.001 0	TC99_ETVDSK_LS 1.2532E-01	1.2532E-01	_	06/04/2008 06:43	-
Lab Sample Id:	Client Id:	Test User	Contract	SAF Nb	or Sdg Nbr:	Type:	^^	Moisture/ Solids%*:	Distilled	Sample On Date:		3	Collection Date:	
TestAmerica			U Qual	Analyzed	for, but th	e result is	ess tha	in the Md	c or gamm	U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.	tify the nuclic	Je.		2
rotFeadRa	dSummar	rptFeadRadSummarvEdd v3.48	J Qual -	No U qua	lifter has t	neen assign	ed and	the result	is below t	J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).	(CRDL).			
The state of the s			B Qual-	Analyte w	'as found i	n the assoc	iated l	aboratory	blank abo	B Qual- Analyte was found in the associated laboratory blank above the MDC.				

9/19/200	6/19/2008 5:37:32 PM	M				_	TestAmerica	rica	Report	ų.			_	Lab Code: TARL		
FormNbr: R	œ	FormatType: FEAD	FEAD	Versio	Version: 05	Rpt N	Rpt Nbr: 39341		File Name:	:\Reportdb\	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	92.Edd, h:\Rep	ortdb\ed	d\FeadIV\Rad\39.	341.Ed	73
9KMK3610	B1V122		MW6-S	BB-A1	MW6-SBB-A1 W08-004	W05392							05/05/2	05/05/2008 11:01		
Batch	Analyte	CAS#		Result		CntU 2S	Totu 2S	Qual	MDA	TrcYield	Method	Alq Size	ž	Analy Date/Time		Act
8134499	TC-99	14133-76-7		2.61E+00	pCi/L	4.3E+00	6.1E+00	>	9.89E+00 100.0	100.0	TC99_SEP_LSC	1.2552E-01	٦	06/13/2008 02:33	2:33	_
8134496	Uranium	7440-61-1	2.31	2.31E+00	ng/L	2.4E-01	2.4E-01		8.15E-02		UTOT_KPA	2.57E-02	Z	06/12/2008	14:47	-
Lab Samole Id:	Client	Test	Contract	ract	SAF Nbr	Sdg	20,5		Moisture/	Distilled	Sample		8	Collection		
9KMK3R10 B1TX06	B1TX06		MW6-SBB-A1		S08-004	W05392					E).		05/05/2	05/05/2008 13:07		
Batch	Analyte	CAS#	Re	Result	Chit	CntU 2S	TotU 2S	Oual	MDA	TrcYleld	Method	Ald Size	Unit	Analy Date/Time		Act
8134497	£	10028-17-8		3.59E+03	POIL	2.1E+02	2.6E+02		2.54E+02 100.0	100.0	906.0_H3_LSC	5.00E-03	٦	05/30/2008 13:57		_
8134482	ALPHA	12587-46-1		9.40E-01	PCIL	1.1E+00	1.1E+00	-	1.83E+00 100.0	100.0	9310_ALPHABETA 1.85E-01	1.85E-01	_	06/10/2008 1	15:17	_
8134483	BETA	12587-47-2	200	1.76E+02	PCI/L	6.3E+00	2.3E+01		2.75E+00 100.0	100.0	9310_ALPHABETA 2.001E-01	2.001E-01	_	06/10/2008 1	14:29	-
8134494	I-129L	15046-84-1		3.38E+00	PCI/L	6.2E-01	6.2E-01		3.27E-01 96.2	96.2	1129LL_SEP_LEPS 3.8575E+00	3.8575E+00	_	06/05/2008 1	19:58	-
8134492	SR-90	10098-97-2		2.90E-01	PC!/L	5.0E-01	5.0E-01	5	1.04E+00	53.9	SRISO_SEP_PRE	1.0025E+00	_	06/15/2008 0	00:90	-
Lab Sample Id:	Cllent Id:	Test User	Contract	ract	SAF Nbr	r Sdg	OC Type:		Moisture/	Distilled	Sample On Date:		3	Collection		
9KMKW310 B1TW29	B1TW29		MW6-S	MW6-SBB-A1 108-032	08-032	W05392							05/05/2	05/05/2008 10:15		
Batch	Analyte	CAS#	Re	Result	Chit	CntU 2S	Totu 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
8134497	H-3	10028-17-8		1.53E+02	PCIL	1.1E+02	1.2E+02	J	2.53E+02 100.0	100.0	906.0_H3_LSC	5.00E-03	ے	05/30/2008 08:30		-
8134482	ALPHA	12587-46-1	1.77	1.77E+00	pCI/L	1.2E+00	1.3E+00		1.39E+00 100.0	100.0	9310_ALPHABETA 1.723E-01	1.723E-01	_	06/10/2008 1	14:15	_
8134483	BETA	12587-47-2	// Daniel	6.75E+00	PCI/L	1.7E+00	2.0E+00		2.80E+00 100.0	100.0	9310_ALPHABETA 2.002E-01	2.002E-01	_	06/10/2008 1	14:29	-
8134490	BE-7	13966-02-4)E	-5.59E+00	PCI/L	1.4E+01	1.4E+01	-	2.36E+01		GAMIMA_GS	2.5006E+00	J	06/05/2008 0	09:16	_
8134490	09-00	10198-40-0	1540	-2.61E-01	PC!/L	1.5E+00	1.5E+00	>	2.70E+00	522-	GAMMA_GS	2.5006E+00	J	06/05/2008 0	09:16	_
8134490	CS-134	13967-70-9	25	-2.12E-01	PCI/L	1.5E+00	1.5E+00	>	2.62E+00		GAMIMA_GS	2.5006E+00	_	06/05/2008 0	09:16	_
8134490	CS-137	10045-97-3	The same	-8.03E-01	PC!/L	1.3E+00	1.3E+00	-	2.23E+00	1000	GAMMA_GS	2.5006E+00	_	06/05/2008 0	09:16	_
8134490	EU-152	14683-23-9		2.00E+00	PC!/L	3.5E+00	3.5E+00	-	6.47E+00	200	GAMMA_GS	2.5006E+00	J	06/05/2008 0	09:16	_
8134490	EU-154	15585-10-1		-9.71E-02	PCI/L	4.4E+00	4.4E+00	-	7.99E+00		GAMMA_GS	2.5006E+00	_	06/05/2008 0	09:16	_
8134490	EU-155	14391-16-3	-	4.08E-01	pCi/L	2.3E+00	2.3E+00	>	4.01E+00		GAMMA_GS	2.5006E+00	_	06/05/2008 0	09:16	_
8134490	K-40	13966-00-2	656	-2.34E+01	pCI/L	3.3E+01	3.3E+01	>	6.38E+01		GAMMA_GS	2.5006E+00	ن	06/05/2008 0	09:16	_

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05/06/2008 11:03

Collection

Sample On Date:

Distilled

Moisture/ Solids%*:

Jy Pe:

SAF Nbr

Contract

Test User

Client

Ä

Sample Id:

9KMNC510 B1TW23

Sdg Nbr: W05392

MW6-SBB-A1 108-032

06/05/2008 09:16

2.5006E+00 2.5006E+00

GAMMA_GS

2.21E+01 5.41E+00

 \supset

1.3E+01 1.3E+01

PCI/L

-7.49E+00 -1.36E+00

13967-48-1

RU-106

8134490 8134490 Lab

SB-125

3.2E+00

3.2E+00

GAMIMA_GS

TestAmerica
TptFcadRadSummaryEdd v3.48

J

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide. J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL). B Qual - Analyte was found in the associated laboratory blank above the MDC.

TESTAMERI	CA

Climate Test Contract Steel to Ste	6/19/2008	6/19/2008 5:37:32 PM	7			_	TestAmerica	rica	Report	.				Lab Code: TARL	
	FormNbr:	œ	FormatType: Fi		sion: 05	Rpt	lbr: 39341		File Name:	h:\Reportdb\	edd\Fead!\\Rad\W053	92.Edd, h:\Rep	ortdb\ed	d\Fead\\\Rad\39341.E	B
Client Test	Batch 8134492	Analyte SR-90	CAS# 10098-97-2	Result -9.46E-02		CntU 2S 5.9E-01	TotU 2S 5.9E-01	O ual	P	TrcYield) 60.7	Method SRISO_SEP_PRE	Alq Size 1.0007E+00	E –	Analy Date/Time 06/15/2008 06:00	- Act
Handing CASS Control Cast Control Cast Control Cast Control Cast	810	Client Id: B1VC57		Contract Nbr WW6-SBB-A	9			i	oisture/ ilids%*:	Distilled			Col	lection Date: 008 12:46	
Collection Treet National Safe Nationa	Batch 8134497 8134492	Analyte H-3 SR-90		Result 6.38E+03 1.62E-01		CntU 2S 2.6E+02 3.9E-01	TotU 2S 3.7E+02 3.9E-01		MDA 2.52E+02 8.12E-01	TrcYleld 2 100.0 66.9	Method 906.0_H3_LSC SRISO_SEP_PRE	Alq Size 5.00E-03 1.0017E+00	E L L	ate/ 008 008	¥
Client 14762-755 1.00E+01 2.00E+01	Lab Sample Id: 9KMNC820	Client Id: B1VC57		Contract Nbr	9				oisture/ yids%*:	Distilled			Col	lection Jate: 008 12:46	
Client Test Contract SAF Not GC Moistured Distilled Sample Contection Contection Contection Distilled Sample Contection Contection </td <td>Batch 8161360</td> <td>Analyte C-14</td> <td></td> <td>Result 1.09E+01</td> <td></td> <td>CntU 2S 3.8E+00</td> <td></td> <td>Önaj</td> <td>Ŧ</td> <td>TrcYield) 100.0</td> <td>Method C14_LSC</td> <td>Alq Size 2.00E-01</td> <td>Sit L</td> <td>Analy Date/Time 06/16/2008 22:34</td> <td>- Act</td>	Batch 8161360	Analyte C-14		Result 1.09E+01		CntU 2S 3.8E+00		Önaj	Ŧ	TrcYield) 100.0	Method C14_LSC	Alq Size 2.00E-01	Sit L	Analy Date/Time 06/16/2008 22:34	- Act
Client 15046-04-1 15021-00 2.4001 2.4001 3.40	Lab ample Id: (MNDE10	Client Id: B1TWY8		Contract Nbr MW6-SBB-A	Ø	5			oisture/	Distilled			Col 05/06/2	lection Date: :008 09:24	
Cilent Test Contract SAF Nbt SAG Cilent Libert Lib		Analyte I-129L	CAS# 15046-84-1	Result 1.62E+00		3.4E-01	3.4E-01	Qual	ှိန		Method 1129LL_SEP_LEPS	Alq Size 3.8906E+00			A ct
Hatelant Test Confract SAF Nbr S4g QC Moletural Distilled Sample On Date:		SR-90	10098-97-2	9.89E-03	i i	9.4E-02	4.2E-01	D	8.95E-01		SRISO_SEP_PRE	1.0003E+00	_		
Analyte CAS# Result Unit Crut 25 Totl 125 Qual TrcYrleid Method Ang size Unit Analy Date Trophol Fresult Unit Crut 25 Totl 125 Totl 125 </td <td>Lab ample Id: (MNDG10</td> <td>Client Id: B1TWR1</td> <td></td> <td>Contract Nbr WW6-SBB-A</td> <td>S</td> <td>b</td> <td></td> <td>111111111111111111111111111111111111111</td> <td>oisture/ Nids%*:</td> <td>Distilled</td> <td></td> <td></td> <td>Col [05/06/2</td> <td>lection Date: :008 12:34</td> <td></td>	Lab ample Id: (MNDG10	Client Id: B1TWR1		Contract Nbr WW6-SBB-A	S	b		111111111111111111111111111111111111111	oisture/ Nids%*:	Distilled			Col [05/06/2	lection Date: :008 12:34	
CS-60 10198-40-0 1.10E+00 PC/L 1.6E+00 1.6E+00 U 3.38E+00 GAMMALL_GS 2.0005E+00 L 06/05/2008 CS-134 13967-70-9 1.60E+00 PC/L 2.1E+00 U 2.77E+00 GAMMALL_GS 2.0005E+00 L 06/05/2008 CS-137 10045-97-3 4.79E-01 PC/L 1.6E+00 1.6E+00 U 7.38E+00 GAMMALL_GS 2.0005E+00 L 06/05/2008 CS-139 1.30E-01 PC/L 4.5E+00 1.6E+00 U 7.38E+00 GAMMALL_GS 2.0005E+00 L 06/05/2008 CS-139 1.27E-02 PC/L 4.3E+01 4.4E+00 U 7.38E+00 GAMMALL_GS 2.0005E+00 L 06/05/2008 CS-139 1.27E-02 PC/L 4.3E+01 4.3E+01 U 3.32E+01 GAMMALL_GS 2.0005E+00 L 06/05/2008 CS-10-15 1.39E-01 PC/L 4.3E+01 1.5E+01 U 2.77E+01 GAMMALL_GS 2.0005E+00 L 06/05/2008 CS-10-15 1.39E-01 PC/L 4.3E+01 1.6E+01 U 2.72E+01 GAMMALL_GS 2.0005E+00 L 06/05/2008 CS-10-15 1.29E-01 PC/L 4.3E+01 1.6E+01 U 2.72E+01 GAMMALL_GS 2.0005E+00 L 06/05/2008 CS-10-15 1.29E-01 PC/L 4.3E+01 1.6E+01 U 2.72E+01 GAMMALL_GS 2.0005E+00 L 06/05/2008 CS-10-15 1.29E-01 PC/L 4.3E+01 1.6E+01 U 2.72E+01 GAMMALL_GS 2.0005E+00 L 06/05/2008 CS-10-15 1.29E-01 PC/L 4.3E+01 1.6E+01 1.6E+01 1.6E+01 1.6E+01 1.0E+01 1.0E+11 1.0001E+00 L 06/05/2008 CS-10-15 1.0001E+00 L 06/05/2008 CS-10-		Analyte BE-7	CAS#	Result		CmtU 2S	TotU 2S		Ì	TrcYield		Alq Size	Cuit	Analy Date/Time 06/05/2008 09:18	¥ –
CS-134 13967-70-9 1.60E+00 pCi/L 2.1E+00 1.6E+00 U 2.77E+00 GAMMALL_GS 2.0005E+00 L 06/05/2008 CS-137 10045-97-3 4.79E-01 pCi/L 1.6E+00 1.6E+00 U 2.77E+00 GAMMALL_GS 2.0005E+00 L 06/05/2008 CS-137 10045-97-3 4.79E-01 pCi/L 4.8E+00 4.8E+00 U 7.38E+00 GAMMALL_GS 2.0005E+00 L 06/05/2008 CS-14683-23-9 -1.96E-01 pCi/L 4.4E+00 4.4E+00 U 7.38E+00 GAMMALL_GS 2.0005E+00 L 06/05/2008 CS-14391-16-3 -1.27E-02 pCi/L 3.2E+00 J 7.38E+00 GAMMALL_GS 2.0005E+00 L 06/05/2008 CS-14391-16-3 -1.27E-02 pCi/L 4.3E+01 J 3.2E+01 U 3.32E+01 GAMMALL_GS 2.0005E+00 L 06/05/2008 CS-14234-35-6 2.53E+00 pCi/L 1.6E+01 J 0.2.72E+01 GAMMALL_GS 2.0005E+00 L 06/05/2008 CS-14234-35-6 2.53E+00 pCi/L 3.9E+00 J 7.31E+00 GAMMALL_GS 2.0005E+00 L 06/05/2008 CS-14234-35-6 2.53E+00 pCi/L 3.9E+00 J 7.31E+00 GAMMALL_GS 2.0005E+00 L 06/05/2008 CS-14234-35-6 2.53E+00 pCi/L 3.9E+00 J 7.31E+00 GAMMALL_GS 2.0005E+00 L 06/05/2008 CS-14234-35-6 2.53E+00 pCi/L 3.9E+00 J 7.31E+00 GAMMALL_GS 2.0005E+00 L 06/05/2008 CS-14234-35-6 2.53E+00 pCi/L 3.0E-01 J 3.0E-01 J 0.659E-01 64.4 SRISO_SEP_PRE 1.0001E+00 L 06/05/2008 CS-14234-35-6 2.53E+00 pCi/L 3.0E-01 J 3.0E-01 J 0.659E-01 64.4 SRISO_SEP_PRE 1.0001E+00 L 06/05/2008 CS-14234-35-6 2.30E-02 pCi/L 3.0E-01 J 3.0E-01 J 0.659E-01 64.4 SRISO_SEP_PRE 1.0001E+00 L 06/05/2008 CS-14234-35-6 2.30E-02 pCi/L 3.0E-01 J 3.0E-01 J 0.659E-01 64.4 SRISO_SEP_PRE 1.0001E+00 L 06/05/2008 CS-14234-35-6 2.30E-02 pCi/L 3.0E-01 J 3.0E-01 J 0.659E-01 64.4 SRISO_SEP_PRE 1.0001E+00 L 06/05/2008 CS-14234-35-6 2.30E-02 pCi/L 3.0E-01 J 3.0E-01 J 0.659E-01 64.4 SRISO_SEP_PRE 1.0001E+00 L 06/05/2008 CS-14234-35-6 2.30E-02 pCi/L 3.0E-01 J 3.0E-01 J 0.659E-01 64.4 SRISO_SEP_PRE 1.0001E+00 L 06/05/2008 CS-14234-35-6 DCi/L 3.0E-01 J 0.659E-01 J 0.659E-01 64.4 SRISO_SEP_PRE 1.0001E+00 L 06/05/2008 CS-14234-14 J 0.659E-01 J 0.659E-01 64.4 SRISO_SEP_PRE 1.0001E+00 L 06/05/2008 CS-14234-14 J 0.659E-01 64.4 SRISO_SEP_PRE 1.0001E+00 L 06/05/2008 CS-14234-14 J 0.659E-01 64.4 SRISO_SEP_PRE 1.0001E+00 L 06/05/2008 CS-14234-14 J 0.669E-01 64.4 SRISO_SEP_PRE 1.0001E+0		09-00	10198-40-0	1.10E+00	3	1.6E+00	1.6E+00	>	3.38E+00	_	GAMMALL_GS	2.0005E+00	_	06/05/2008 09:18	
EU-152 14683-23-9 -1.96E-01 pCi/L 4.3E+00 d 7.38E+00 GAMMALL_GS 2.0005E+00 L 06/05/2008 EU-154 15585-10-1 -1.80E+00 pCi/L 4.4E+00 U 7.88E+00 GAMMALL_GS 2.0005E+00 L 06/05/2008 EU-155 14391-16-3 -1.27E-02 pCi/L 3.2E+00 J 3.3E+01 GAMMALL_GS 2.0005E+00 L 06/05/2008 RU-106 13967-48-1 -2.97E+00 pCi/L 1.6E+01 J 0. 2.72E+01 GAMMALL_GS 2.0005E+00 L 06/05/2008 SB-125 14234-35-6 2.53E+00 pCi/L 3.9E+00 J 7.31E+00 GAMMALL_GS 2.0005E+00 L 06/05/2008 SR-90 J 0098-97-2 G.39E-02 pCi/L 3.0E-01 J 0. 6.59E-01 64.4 SRISO_SEP_PRE 1.0001E+00 L 06/15/2008 J 0. 06/15/2008 GAMMALL_GS 2.0005E+00 L 06/15/2008 SR-90 J 0098-97-2 G.39E-02 pCi/L 3.0E-01 J 0. 6.59E-01 64.4 SRISO_SEP_PRE 1.0001E+00 L 06/15/2008 J 0. 06/15/2008 GAMMALL_GS 2.0005E+00 L 06/15/2008 J 0. 06/15/2008 GAMMALL_GS 2.0005E+00 L 06/15/2008 J 0. 06/15/2008 GAMMALL_GS 2.0005E+00 L 06/15/2008 GAMMALL_GS 2.00	134491	CS-134 CS-137	13967-70-9	1.60E+0(2.1E+00 1.6E+00	2.1E+00 1.6E+00	> >	4.03E+0(GAMMALL_GS GAMMALL_GS	2.0005E+00	ر ر		
EU-154 1585-10-1 -1.80E+00 pCi/L 4.4E+00 d 4.4E+00 U 7.88E+00 GAMMALL_GS 2.0005E+00 L 06/05/2008 EU-155 14391-16-3 -1.27E-02 pCi/L 3.2E+00 3.2E+00 U 5.46E+00 GAMMALL_GS 2.0005E+00 L 06/05/2008 CAMMALL_GS 2.0005E+00 L 06/05/200		EU-152	14683-23-9	-1.96E-0		4.3E+00	4.3E+00	>	7.38E+00		GAMMALL_GS	2.0005E+00	_		-
K-40 13966-00-2 4.04E+01 pCt/L 4.3E+01 4.3E+01 U 3.32E+01 GAMMALL_GS 2.0005E+00 L 06/05/2008 RU-106 13967-48-1 -2.97E+00 pCt/L 1.6E+01 1.6E+01 U 2.72E+01 GAMMALL_GS 2.0005E+00 L 06/05/2008 SB-125 14234-35-6 2.53E+00 pCt/L 3.9E+00 3.9E+00 U 7.31E+00 GAMMALL_GS 2.0005E+00 L 06/05/2008 SR-90 10098-97-2 6.39E-02 pCt/L 3.0E-01 3.0E-01 U 6.59E-01 64.4 SRISO_SEP_PRE 1.0001E+00 L 06/15/2008 U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide. J Qual - Analyze was found in the associated laboratory blank shows the MDC.		EU-154 EU-155	15585-10-1	-1.80E+0		4.4E+00	4.4E+00	> =	7.88E+0(GAMMALL_GS	2.0005E+00			
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Harding	Lab Cli Sample Id: k 9KMNDL10 B1TX		Contract Nbr MW6-SBB-A1	SAF Nb				visture/	Distilled	Sample On Date:		Colors	Collection Date: 05/06/2008 12:34	
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Client Test Contract SAF Nbr Sog OC Moisturer Distilled Sample On Date: Nbr Nbr Nbr Ther: Solide%: Volume On Date: On Date: Nbr Sog OC Moisturer On Date: On Date: Nbr Sog OC Moisturer On Date: On Da			2.88E+00	ug/L	2.9E-01	2.9E-01		8.12E-02		UTOT_KPA	2.58E-02	M		- 2
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Client Test Contract SAF Nbr S649 OC Moleture Distilled Sample On Date: Solida			Result		CntU 2S		Qual		rcYield	Method	Alq Size	Cuit	Analy Date/Time	Act
Client Dissipation Dispitation Dispi				PCi/L	4.1E+00	5.8E+00	n	9.85E+00	100.0	TC99_ETVDSK_LS	1.2589E-01	_	06/04/2008 07:46	-
Amalyte CAS# Result Unit CmtU 28 TotU 28 Qual MDA TrcYield Method Ad Size			Contract	SAF ND		သည်။		oisture/ lids%::	Distilled Volume	Sample On Date:		8	Collection Date:	
Armalyte CAS# Result Unit CntU 28 TotU 28 Qual MDA TreYield Method Mq Size		F4	MW6-SBB-A1	S08-004	W05392							05/06/2	05/06/2008 07:30	
H-3 10028-17-8 3.80E+01 pCi/L 1.1E+02 1.2E+02 U 2.64E+02 100.0 906.0_H3_LSC 5.00E-03 ALPHA			Result		CntU 2S		Qual		rcYield	Method	Alq Size	Serie C	Analy Date/Time	Act
Number 12587-46-1 -9.12E-02 DC/L 1.3E+01 1.2E-01 10 9.24E-01 100.0 9310_ALPHABETA 2.003E-01		10028-17-		PCI/L	1.1E+02	1.2E+02	-	2.64E+02	100.0	906.0 H3_LSC	5.00E-03	_	05/31/2008 00:52	- 2
Client Test Contract SAF Nbr S4g QC Moisture/ User Nbr				PCI/L	2.2E-01	2.2E-01	ח	9.24E-01		9310_ALPHABETA		_	06/10/2008 16:52	- 2
Cilent Test Contract SAF Nbr S4g QC Moisture/ Distilled Sample Analyze Nbr Nbr Type: Solids%*: Volume On Date: On Date: Nbr Nbr S4g QC Moisture/ Solids%*: Volume On Date: On Date: Nbr S7g Analyze S4f +00 U S.20F +00 100.0 C14 LSC 2.00E -01	3	8 2		PCI/L	1.3E+00	1.3E+00	D	2.76E+00		9310_ALPHABETA		_	06/10/2008 14:29	-
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Client Test Contract SAF Nbr Sdg QC Moisture/ solids%*: Distilled v3.48 Sample on Date: B1TWF0 User Nbr Nbr Type: Solids%*: Volume On Date: B1TWF0 MW6-SBB-A1 S08-004 W05392 W05392 Aual Mbr Alpha Al		· ·				5.4E+00	-	9.84E+00	100.0	TC99_ETVDSK_LS		L	06/04/2008 09:51	_
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SR-90 10098-97-2 dSummaryEdd v3.48				PCI/L	1.7E+00	1.8E+00		2.87E+00	100.0	9310_ALPHABETA	2.002E-01	_	06/10/2008 14:29	-
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Lab Cilent Sample Id: Id: 9KMNE620 B1TWF0	Cilent Id: B1TWF0	Test	Contract SAF NE Nbr MW6-SBB-A1 S08-004	SAF Nbr	Sdg Nbr: W05392	O Yes	<u>.</u>	Moisture/ Solids%*:	Distilled	Sample On Date:		Coll 1	Collection Date: 05/06/2008 10:25	
Batch 8161360 8155308	Analyte C-14 TC-99	CAS# 14762-75-5 14133-76-7	Result 2.78E+03 -6.71E-01	S PCI/L	CntU 2S 2.6E+01 4.0E+00	Totu 28 0 1.1E+02 5.7E+00		MDA TrcYield 8.20E+00 100.0 9.88E+00 100.0		Method Alq Size C14_LSC 2.00E-01 TC99_ETVDSK_LS 1.2505E-01	Alq Size 2.00E-01 1.2505E-01	Unit L	Analy Date/Time 06/17/2008 01:25 06/04/2008 11:56	§ – –
Lab Client Sample Id: Id: 9KMNEL10 B1TWF3	Client Id: B1TWF3	Test User	Contract SAF NE Nbr MW6-SBB-A1 S08-004	SAF Nbr	Sdg Nbr: W05392	O T.		Moisture/ Solids%*:	Distilled	Sample On Date:		Coll Coll 05/06/2	Collection Date: 05/06/2008 11:03	
Batch 8134497 8134482	Analyte H-3 Al PHA	CAS# 10028-17-8 12587-46-1	Result 8.86E+04 1.86E+00	POIL	CntU 2S 8.8E+02	3.4E+03	G	MDA TrcYield 2.53E+02 100.0 1.09E+00 100.0		Method Alq Size 906.0_H3_LSC 5.00E-03 9310_AI_PHARETA_2_00E-04	Alq Size 5.00E-03	u L	Analy Date/Time 05/30/2008 23:30 06/10/2008 15:17	¥
	BETA	12587-47-2			1.8E+00	2.0E+00		2.99E+00 100.0		9310_ALPHABETA 2.00E-01	2.00E-01	<u>.</u>	06/10/2008 14:29	-
Lab Client Sample Id: Id: 9KMNEL20 B1TWF3 Batch Analyte 8155308 TC-99	Client Id: B1TWF3 Analyte TC-99	Test User CAS# 14133-76-7	Contract SAF NE Nbr MW6-SBB-A1 S08-004 Result Unit -5.21E-01 pCi/L		or Sdg Nbr: w05392 CntU 2S 4.0E+00	QC Type Totu 28 5.7E+00	la ⊃	Moisture/ Distil Solids%*: Volu MDA TrcYleid 9.83E+00 100.0	Distilled Volume TrcYleid	Sample On Date: Method Alq Size TC99_ETVDSK_LS 1.2579E-01	Alq Size 1.2579E-01	Col 05/06/2 Unit	Collection	- \$
Lab Sample Id: 9KMNEL30 Batch	Client ld: ld: B1TWF3	Test User CAS#	Contract SAF NE Nbr Nbr MW6-SBB-A1 S08-004 Result Unit	SAF Nbr	No Sdg No Sdg W0 Sdg CntU 2S	QC Type	Cal	Moisture/ Distil	D e	Sample On Date:	Alq Size	Coll 05/06/2	Collection Date: 05/06/2008 11:03 Unit Analy Date/Time	- Act

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Thursday, June 19, 2008	8				Te	stAm	TestAmerica Report	Repor	t			3	Lab Code: TARL	ARI
FormNbr: R	2	matTy	FormatType: FEAD	>	VersionNbr: 05	8		e Name:	n:\Reportdb\edd\	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	2.Edd, h:\Rep	ortdb/edd/	FeadIWR	ad/39341.E
Lab Sample Id:	KM5G01HN			Š	Sdg/Rept Nbr: W05392	Nbr:	N05392	33	39341	Collec	Collection Date: 05/06/2008 12:46	2/90/50	2008 12	46
Client Id:	INTRA-LAB BL	ВГ		Ž	Matrix:		WATER	>	WATER	Samp	Sample On Date:	**		
Moisture/Solids%*:	:,9			ŏ	QC Type:					Recei	Received Date: 05/06/2008	05/06/2	2008	
SAF Nbr Co	Contract Nbr MW6-SBB-A19981	F	Test User	Case	Nbr SV	SAS Nbr	Suffix	×	Decant	Distilled Volume		File Id	_	FSuffix RTyp BL H
Batch # / Analyt Qc Type CAS# 8134497 H-3	Result/ Orig Rst 1.24E+03	Unit PCI/L	Tot/Cnt Uncert 28 1.1E+02 1.0E+02	ਨੂੰ ਵ	MDC	Tracer Yield 100.0	t	Spk Conc/ %Rec	Analy Method 906.0 H3 L5	Analy Aliq Method Size/ 906.0_H3_LSC 5.00E-03	Date/Time Analyzed 05/31/2008 02:14	RPD/ UCL	RER UCL	LCS R LCL/UCL Typ

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide. J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL). B Qual - Analyte was found in the associated laboratory blank above the MDC.

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Thursda	Thursday, June 19, 2008	80				TestAmerica QC Blank Report	rica Q	C Blank	Report			3	Lab Code: TARL	ARL
i	FormNbr: R		Format	FormatType: FEAD		VersionNbr: 05	92	File Name	: h:\Reportdb\edd\	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	2.Edd, h:\Repo	ntdb\edd\F	-eadIMRa	d/39341.Ed
Lab	Lab Sample Id:	KM5F81AB	В		carl Rr.	Sdg/Rept Nbr:			39341	Collect	Collection Date:	05/05/2008 10:15	008 10:	15
Clie	Client Id:	Y.			-	Matrix:	WATER		WATER	Sample	Sample On Date:			
Mois	Moisture/Solids%*	:.9			0	QC Type:	BLK	U		Receiv	Received Date:	05/05/2008	800	
SAF Nbr		Contract Nbr MW6-SBB-A19981	.20	Test User	Case	Nbr SAS Nbr	Pd.	Suffix	Decant	Distilled Volume	File Id	p		FSuffix RTyp BB H
Batch #/	Analyt CAS#	Result/ Orig Rst	Sign	Tot/Cnt Uncert 2S	ė ė	MDC	Tracer	Spk Conc/ %Rec	Analy	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER	LCC/UCL TVP
8134490	BE-7	5.90E-01	PCIA	157	J	2.33E+01			GAMMA_GS	2	06/05/2008			٥
BLK	13966-02-4			-							09:17			
8134490	09-00	3.70E-01	PCI/L	•	b	2.63E+00			GAMMA_GS	2.5006E+00 06/05/2008	06/05/2008			Q
BLK	10198-40-0			1.3E+00							09:17			
8134490	CS-134	-5.55E-01	PCI		>	2.15E+00			GAMMA_GS	2.5006E+00 06/05/2008	06/05/2008			Ω
BLK	13967-70-9										09:17			
8134490	CS-137	-6.60E-03	절	•	>	2.40E+00			GAMMA_GS	2.5006E+00 06/05/2008	06/05/2008			۵
BLK	10045-97-3			1.3E+00						ب	09:17			
8134490	EU-152	-2.09E+00	징	3.2E+00	>	5.34E+00			GAMMA_GS	2.5006E+00 06/05/2008	06/05/2008			۵
BLK	14683-23-9			3.2E+00						_	09:17			
8134490	EU-154	1.24E+00	PCIL	3.5E+00	⊃	7.02E+00			GAMMA_GS	2.5006E+00 06/05/2008	06/05/2008			٥
BLK	15585-10-1			3.5E+00							09:17			
8134490	EU-155	1.79E+00	PCIA		>	4.24E+00			GAMMA_GS	2.5006E+00 06/05/2008	06/05/2008			٥
BLK	14391-16-3			2.3E+00						_	09:17			
8134490	K-40	-5.13E+01	PCIA	2.6E+01	b	4.76E+01			GAMMA_GS	2.5006E+00 06/05/2008	06/05/2008			۵
BLK	13966-00-2			2.6E+01						_	09:17			
8134490	RU-106	-5.83E+00	PCiV	1.3E+01	>	2.16E+01			GAMMA_GS	2.5006E+00 06/05/2008	06/05/2008			Ω
BLK	13967-48-1			1.3E+01						_	09:17			
8134490	SB-125	-1.17E+00	PCI/L	3.2E+00	>	5.40E+00			GAMMA_GS	2.5006E+00 06/05/2008	06/05/2008			۵
BLK	14234-35-6			3.2E+00						_	09:17			

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide. J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL). B Qual - Analyte was found in the associated laboratory blank above the MDC.

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FormNbr: R		ormatTy	FormatType: FEAD	- 1	TestAmeric	erica 05	TestAmerica QC Blank Report	Blank Report Lab Code: TARL File Name: h:\Reportdb\edd\Fead\Variantimes \text{ASQ2.Edd}, h:\Reportdb\edd\Fead\VRad\39341.Edd	FeadIV/Rad/W0539	32.Edd, h:\Repo	Lal hrtdb\edd\	Lab Code: TARL	ARL Id\39341.Ed
Lab Sample Id: Client Id: Moisture/Solids%*:	KM5FT1AB NA %⁺:	m		w Z a	Sdg/Rept Nbr: W05392 Matrix: WATER QC Type: BLK		W05392 WATER BLK	39341 WATER	Collec Samp Recei	Collection Date: 05/01/2008 09:16 Sample On Date: Received Date: 05/01/2008	05/01/2008	2008 09	16
SAF Nbr C	Contract Nbr MW6-SBB-A19981	_	Test User	Case	Nbr SA	SAS Nbr	Suffix	Decant	Distilled Volume		File Id	_	FSuffix RTyp BD H
Analyty Carype CAS# 8134482 ALPHA BLK 12587-46-1	Result/ Orig Rst 6.95E-02	PCI/L	ToVCnt Uncert 2S 2.9E-01 2.9E-01	÷ = ⊃	MDC 7.95E-01	Tracer Yield 100.0	Spk Conc/ %Rec	d Analy Method 9310_ALPHAB	Aliq Size/ B 2.002E-01 L	Date/Time Analyzed 06/10/2008 16:52	RPD/ UCL	RERU	LCS R LCL/UCL Typ

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Thursday, June 19, 2008 FormNbr: R		FormatT	FormatType: FEAD	_ /	TestAmeric	rica (TestAmerica QC Blank Report	Report e: h:\Reportdb\ex	Blank Report File Name: h:\Reportdb\edd\Fead\VRad\W05392.Edd, h:\Reportdb\edd\Fead\VRad\39341.Edd	92.Edd, h:\Rep	La	Lab Code: TARL	FARL ad\39341.E	B
Lab Sample Id: Client Id: Moisture/Solids%*:	Id: KM5FV1AB NA ids%*:	ω.		w Z G	Sdg/Rept Nbr: W05392 Matrix: WATER QC Type: BLK	br: W05; WAT BLK	W05392 WATER BLK	39341 WATER	Collec Samp Recei	Collection Date: 05/01/2008 10:38 Sample On Date: Received Date: 05/01/2008	05/01/2008	2008 10	88	1
SAF Nbr	Contract Nbr MW6-SBB-A19981	ean"	Test User	Ses	Nbr SAS	SAS Nbr	Suffix	Decant	Distilled Volume		File Id		FSuffix RTyp BF H	& I
Batch # / Analyt/ Qc Type CAS# 8134483 BETA BI K 12587.47-2	/ Result/ Orig Rst 6.08E-01	Unit	Tot/Cnt Uncert 2S 1.2E+00	हे च ⊃	MDC 2.55E+00	Tracer Yield 100.0	Spk Conc/ %Rec		Analy Aliq Method Size/ 9310_ALPHAB 2.005E-01	Date/Time Analyzed 06/10/2008	RPD/ UCL	RERU	LCS R LCL/UCL Typ D	~ <u>}</u>

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Lab Sample Id: Client Id: Moisture/Solids%*:	1: KM5G01AB NA ds%*:	en en		NEG	Sdg/Rept Nbr: W05392 Matrix: WATER QC Type: BLK	br: W053 WATI BLK		39341 WATER	Collec Sampl Receiv	Collection Date: 05/06/2008 12:46 Sample On Date: Received Date: 05/06/2008	05/06/2	2008 12	46
SAF Nbr	Contract Nbr MW6-SBB-A19981		Test User	Case	Nbr SAS	SAS Nbr	Suffix	Decant	Distilled Volume	Ē	File Id		FSuffix RTyp BH H
Batch # / Analyt Qc Type CAS# 8134497 H-3 BLK 10028-17-8	ResultV Orig Rst -2.99E+01	Unit PCI/L	TovCnt Unit Uncert 2S pCi/L 1.1E+02 1.0E+02	ġ a ⊃	MDC 2.52E+02	Tracer Yield 100.0	Spk Conc/ %Rec	Method 906.0_H3_LSC	Aliq Size/ SC 5.00E-03	Date/Time Analyzed 05/30/2008	RPD/ UCL	RER	LCS R LCL/UCL Typ D

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Thursday, June 19, 2008	19, 2008				_	TestAmerica QC Blank Report	erica	QC BL	ank F	Report				2	Lab Code: TARL	TARL	
FormNbr: R	E .	_	ormatT)	FormatType: FEAD		VersionNbr: 05	S	ii.	Name:	h:\Reportdb\edk	1/Feadl	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	Edd, h:/Rep	ortdb/edd/	FeadIMR	ad\39341.	8
Lab Sample Id:		KM5G01DX	×		w :	Sdg/Rept Nbr: W05392	V :	V05392	88	39341		Collect	Collection Date: 05/06/2008 12:46	/90/90	2008 12	:46	
Client Id: Moisture/Solids%*:		Y			20	Matrix: 2C Type:	> 00	WAIEK BLK	\$	WAIEK		Sample	Sample On Date: Received Date:	05/06/2008	2008		
SAF Nbr	Contract Nbr MW6-SBB-A19	Contract Nbr MW6-SBB-A19981	۲	Test User	Case	Nbr SA	SAS Nbr	Suffix	×	Decant	Dist	Distilled Volume		Pile Id		FSuffix RTyp BJ H	P.I
Batch # / Analyt/ Qc Type CAS# 8134497 H-3		Result Orig Rst 1.06E+01	Unit		g w	MDC 2.66E+02	Tracer Yield 100.0		Spk Conc/ %Rec	Analy Method 906.0_H3_LSC		Aliq Size/ 5.00E-03	Date/Time Analyzed 05/30/2008	RPD/ UCL	RERV	LCS R LCL/UCL Typ	. 🗅
BLK 10028-17-8	-17-8			1.1E+02								ب	00:16				

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Thursday	Thursday, June 19, 2008	80				TestAmerica QC Blank Report	ica Q	Blank	Report			Lab	Lab Code: TARL	ARI	
	FormNbr: R	*	ormatT	FormatType: FEAD		VersionNbr. 05	S.	File Name:	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	IdIV/Rad/W05392	Edd, h:\Repor	1db/edd/F	eadIMRa	d\39341.E	용
Lab	Lab Sample Id:	KM5GD1AB	ø		•	Sdg/Rept Nbr: W05392	r: W05		39341	Collecti	Collection Date:	05/06/2008 12:34	008 12:	34	
Client Id:	t Id:	Ą			-	Matrix:	WATER		WATER	Sample	Sample On Date:				
Mois	Moisture/Solids%*:	:.%			-	QC Type:	BLK			Receive	Received Date:	05/06/2008	800		
SAF Nbr		Contract Nbr MW6-SBB-A19981		Test User	88	Nbr SAS Nbr	N Pr	Suffix	Decant Di	Distilled Volume	File Id	P		FSuffix RTyp BM H	ê I
Batch # /	Analyt/ CAS#	Result/ Orig Rst	Ë	Tot/Cnt Uncert 2S	Q e	MDC	Tracer	Spk Conc/ %Rec	Analy	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER	LCLUGG	۳ ک <u>ې</u>
8134491	BE-7	-9.95E+00	PCI/L	1.3E+01	>	2.16E+01			GAMMALL_GS	2.0005E+00 06/05/2008	6/05/2008				
BLK	13966-02-4			1.3E+01							09:18				
8134491	09-00	-1.24E-01	PCIA	1.1E+00	>	2.02E+00			GAMMALL_GS	2.0005E+00 06/05/2008	6/05/2008				۵
BLK	10198-40-0			1.1E+00						_	09:18				
8134491	CS-134	4.76E-01	PC!/L	1.4E+00)	2.40E+00			GAMMALL_GS	GAMMALL_GS 2.0005E+00 06/05/2008	6/05/2008				۵
BLK	13967-70-9			1.4E+00						٦,	09:18				
8134491	CS-137	4.47E-01	PCI/L	1.2E+00	>	2.29E+00			GAMMALL_GS	GAMMALL_GS 2.0005E+00 06/05/2008	6/05/2008				۵
BLK	10045-97-3			1.2E+00						_	09:18				
8134491	EU-152	-7.20E-01	PCIL	3.5E+00	>	5.98E+00			GAMMALL_GS	GAMMALL_GS 2.0005E+00 06/05/2008	6/05/2008				0
BLK	14683-23-9			3.5E+00						_	09:18				
8134491	EU-154	3.86E-01	PCIA	3.2E+00	>	6.01E+00			GAMMALL GS	GAMMALL_GS 2.0005E+00 06/05/2008	6/05/2008				٥
BLK	15585-10-1			3.2E+00						_	09:18				
8134491	EU-155	-2.13E-02	PCIL	2.9E+00	>	5.03E+00			GAMMALL_GS	GAMMALL_GS 2.0005E+00 06/05/2008	6/05/2008				۵
BLK	14391-16-3			2.9E+00						ر	09:18				
8134491	K-40	-1.17E+01	PCIA	2.1E+01	>	3.89E+01			GAMMALL_GS	GAMMALL_GS 2.0005E+00 06/05/2008	6/05/2008				۵
BLK	13966-00-2			2.1E+01						_	09:18				
8134491	RU-106	1.48E+00	PCI/L	1.2E+01	כ	2.24E+01			GAMMALL GS	GAMMALL_GS 2.0005E+00 06/05/2008	6/05/2008				۵
BLK	13967-48-1			1.2E+01						_	09:18				
8134491	SB-125	-1.23E+00	PC!/L	3.3E+00	>	5.69E+00			GAMMALL_GS	GAMMALL_GS 2.0005E+00 06/05/2008	6/05/2008				۵
BLK	14234-35-6			3.3E+00						. .	09:18				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide. J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL). B Qual - Analyte was found in the associated laboratory blank above the MDC.

TestAmerica U Qual - Analyzed for, but the rptFeadRadEdd v3.68 J Qual - No U qualifier has be

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Thursday, June 19, 2008	2008			-	[estAm	erica (FestAmerica QC Blank Report	Report			Lab	Lab Code: TARL	ARL
FormNbr: R		FormatT	FormatType: FEAD		VersionNbr: 05	92	File Nar	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	\FeadIV\Rad\W053	92.Edd, h:\Repo	ortdb/edd/F	eadIWR	d/39341.E
Lab Sample Id:	d: KM5GE1AB	9		S	Sdg/Rept Nbr: W05392	lbr: W	05392	39341	Collec	Collection Date: 05/06/2008 11:03	05/06/2	11 800	8
Client Id:	A			2	fatrix:	Š	WATER	WATER	Samp	Sample On Date:			
Moisture/Solids%*:	:,%sp			G	QC Type:	BLK	¥		Recei	Received Date: 05/06/2008	05/06/2	800	
SAF Nbr	Contract Nbr MW6-SBB-A19981	F	Test User	Case	Nbr SA	SAS Nbr	Suffix	Decant	Distilled Volume		File Id		FSuffix RTyp BO H
Batch # / Analyti Qc Type CAS# 8134492 SR-90	Result/ Orig Rst -2.79E-02	POIL U	Tot/Cnt Uncert 2S 2.9E-01	ਰੇ ≅ ⊃	MDC 6.53E-01	Tracer Yield 70.7	Spk Conc/ %Rec		Analy Allq Date/Time Method Size/ Analyzed SRISO SEP P 1,0002E+00 06/15/2008	Date/Time Analyzed	RPD/ UCL	RERV	LCS R LCL/UCL Typ
BLK 10098-97-2			2.9E-01					l		06:01			

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Lab Sample Id:	: KM5GK1AB	Ø		ഗ്	Sdg/Rept Nbr: W05392	br: WOE		39341	Colle	Collection Date: 05/06/2008 12:34	2/90/50	2008 12	34
Client Id:	AN			Σ	Matrix:	WATER	TER	WATER	San	Sample On Date:			
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SAF Nbr	Contract Nbr MW6-SBB-A19981	F	Test User	Case	Nbr SAS	SAS Nbr	Suffix	Decant	Distilled Volume		File Id	-	FSuffix RTyp BQ H
Batch # / Analyt Qc Type CAS# 8134493 I-129L BLK 15046-84-1	Result/ Orig Rst -4.06E-01	PC/L	Tot/Cnt Uncert 28 8.5E-01 8.5E-01	å = ⊃	Tra MDC Yi 1.47E+00 98.1	Tracer Yield 98.1	Spk Conc/ %Rec		Analy Aliq Method Sizs/ 1129_SEP_LEP 5.003E-01	Date/Time Analyzed 06/06/2008	RPD/ UCL	RER/ UCL	LCS R LCL/UCL Typ

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Inursauy, June 17, 2000	2002				estAm	erica (FestAmerica QC Blank Report	Report			Lab	Lab Code: TARL	4RL
FormNbr: R	and the second	FormatTy	FormatType: FEAD		/ersionNbr: 05	90	File Nan	File Name: h:\Reportdb\edd\Fead\VRad\W05392.Edd, h:\Reportdb\edd\Fead\VRad\39341.Edd	eadIV/Rad/W05392	Edd, h:\Repo	rtdb\edd\Fe	adIWRa	d/39341.Ec
Lab Sample Id:	#: KM5GM1AB	AB		ú	Sdg/Rept Nbr: W05392	Ibr: W	15392	39341	Collect	Collection Date: 04/29/2008 08:00	04/29/20	:80 80	8
Client Id: Moisture/Solids%*:	NA ds%*:			Z O	Matrix: QC Type:	WAT	WATER BLK	WATER	Sample	Sample On Date: Received Date: 05/01/2008	05/01/20	800	
SAF Nbr	Contract Nbr MW6-SBB-A19981		Test User	Case	Nbr SA	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	2	•	FSuffix RTyp BS H
Batch # / Analyt/ Gc Type CAS# 8134494 -129L BLK 15046-84-1	Result/ Orig Rst 5.58E-02	Unit PCI/L	Tou'Cnt Unit Uncert 2S pC/L 1.2E-01 1.2E-01	함 등 ⊃	Tra MDC Yii 2.32E-01 98.1	Tracer Yield 98.1	Spk Conc/		Analy Aliq Date/Time Method Size/ Analyzed 1129LL_SEP_L 3.9901E+00 06/06/2008 L 05:32	Date/Time Analyzed 06/06/2008 05:32	RPD/ UCL	RER/ UCL	LCS R LCL/UCL Typ D

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Thursday, June 19, 2008	2008			_	FestAm	erica	TestAmerica QC Blank Report	k Report			3	Lab Code: TARL	LARI
FormNbr: R		FormatT	FormatType: FEAD		VersionNbr: 05	90	File Na	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	/FeadIV/Rad/W05392.Edd	2.Edd, h:\Rep.	ortdb\edd\	FeadIMR	ad\39341.E
Lab Sample Id: Client Id:	d: KM5GV1AB NA	g		υŞ	Sdg/Rept Nbr: W05392 Matrix: WATER	Nbr:	W05392 WATER	39341 WATER	Collec	Collection Date: 05/06/2008 12:34 Sample On Date:	.:	2008 12	2 6
Moisture/Solids%*:	:_%spj			G	ac Type:		BLK		Receiv	Received Date: 05/06/2008	/90/50	2008	
SAF Nbr	Contract Nbr MW6-SBB-A19981	-	Test User	Case	rd V	SAS Nbr	Suffix	Decant	Distilled Volume	E	File Id		FSuffix RTyp BU H
Batch # / Analyt/ Qc Type CAS#	Result/ Orig Rst	Unit	Tot/Cnt Unit Uncert 2S	a Q	MDC	Tracer	cer Spk Conc/	nc/ Analy	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER	LCS R
8134496 Uranium BLK 7440-61-1	5.06E-02	ng/L	7.8E-03 7.8E-03)	8.38E-02			UTOT_KPA	2.50E-02 ML	06/12/2008			

Thursday, June 19, 2008	, 2008			F	estAm	erica	TestAmerica QC Blank Report	Report			3	Lab Code: TARL	LARI	
FormNbr: R		-ormatTy	FormatType: FEAD	>	VersionNbr: 05	92	File Name	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	FeadIV/Rad/W0538	32.Edd, h:\Rep	ortdbleddl	FeadIMR	ad\39341.E	B
Lab Sample Id:	Id: KM5HC1AB	œ,		ŭ	Sdg/Rept Nbr: W05392	lbr: W		39341	Collec	Collection Date: 05/05/2008 11:01	05/05/2	2008 11	6	
Client Id:	Y Y			Ž	Matrix:	3	WATER	WATER	Samp	Sample On Date:				
Moisture/Solids%*:	:,%spi			ð	2C Type:	Ø	BLK		Recei	Received Date: 05/05/2008	05/05/2	8008		
SAF Nbr	Contract Nbr MW6-SBB-A19981	ř	Test User	Case N	Nbr SA	SAS Nbr	Suffix	Decant	Distilled Volume		File Id		FSuffix RTyp BX H	호ェ
Batch # / Analyt/ Qc Type CAS#	/ Result/ Orig Rst	Pie	Tot/Cnt Unit Uncert 2S	ਨੂੰ ਵ	MDC	Tracer	r Spk Conc/	Analy	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS R	
8134499 TC-99	-1.19E+00	PCI/L	pCi/L 5.9E+00	ב	9.87E+00 100.0	100.0		TC99 SEP L	TC99_SEP_LS 1.2518E-01 06/13/2008	06/13/2008				۵
BLK 14133-76-7	7.7		4.1E+00							02:33				

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Thursday, June 19, 2008	800			83	TestAmerica QC Blank Report	rica	QC Blan	ık Re	eport			<u></u>	Lab Code: TARL	ARL
FormNbr: R		matT	FormatType: FEAD	İ	VersionNbr: 05	95	File	lame: h:	\Reportdb\edd\!	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	32.Edd, h:\Rep	ortdb\edd\	FeadIWR	d\39341.E
Lab Sample Id: Client Id: Moisture/Solids%*:	KM5HD2AB NA s%⁺:	5.			Sdg/Rept Nbr: W05392 Matrix: WATER QC Type: BLK	5 S 80	W05392 WATER BLK	39341 WATE	39341 WATER	Collec Samp Receiv	Collection Date: 05/06/2008 07:30 Sample On Date: 05/06/2008	05/06/2	2008 07	30
SAF Nbr	Contract Nbr MW6-SBB-A19981		Test User	Case	-QN	SAS Nbr	Suffix		Decant	Distilled Volume		File Id		FSuffix RTyp BZ H
Batch # / Analyt/ Qc Type CAS# 8155308 TC-99 BLK 14133-76-7	Result Orig Rst -1.92E+00	Unit PCi/L	Tot/Cnt Unit Uncert 2S pCi/L 5.7E+00 4.0E+00		MDC Yield 9.89E+00 100.0	Tracer Yield 100.0	r Spk Conc/	ouc/ ac	Analy Method TC99_ETVDS	Analy Aliq Method Size/ TC99_ETVDSK 1.2514E-01	Date/Time Analyzed 06/04/2008	RPD/ UCL	RER	LCS R LCL/UCL Typ D

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Thursday, June 19, 2008	me 19, 2008				T	estAm	erica	TestAmerica QC Blank Report	ik Repo	Ę			=	Lab Code: TARL	TARE	
Fort	FormNbr: R	2	rmatTyp	FormatType: FEAD	>	VersionNbr: 05	90	File N	ame: h:\Rep	ortdb/edd/	File Name: h:\Reportdb\edd\Fead\V\Rad\W05392.Edd, h:\Reportdb\edd\Fead\V\Rad\39341.Edd	2.Edd, h:\Rep	ortdb\edd\	FeadIWR	ad\39341.E	용
Lab Sample Id:	nple ld:	KPLMH1AB NA			S N	Sdg/Rept Nbr: W05392	lbr.	W05392	39341 WATER		Collec	Collection Date: 05/05/2008 11:33	05/05/2	2008 11	:33	
Moistur	Moisture/Solids%*:				ŏ	QC Type:		BLK		,	Receiv	Received Date:	05/05/2008	2008		
SAF Nbr	Contr. MW6-S	Contract Nbr MW6-SBB-A19981	Ę	Test User	Case N	Nbr	SAS Nbr	Suffix	Decant	ŧ	Distilled Volume	Ē	File Id		FSuffix RTyp	E Z
Batch # / /	Analyt/ CAS#	Result/ Orig Rst	nit.	Tot/Cnt Unit Uncert 2S	å a	MDC	Tracer	er Spk Conc/		Analy	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER	LCS R	
8161360 C-14	4	6.26E-01	pCi/L 4	pCi/L 4.1E+00	~ _	8.20E+00 100.0	100.0		C14	C14_LSC	2.00E-01	06/16/2008				۵
BLK 14762-75-5	762-75-5		•••	3.4E+00							ب	20:26				

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The Carlotte and C	FormNbr: R	R	Format	FormatType: FEAD		VersionNbr: 05	. 05	File N	ame: h:	\Reportdb\edd\F	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	92.Edd, h:\Rep	ortdb/edd/	FeadIMR	ad\39341.	Edd
Lab	Lab Sample Id:	d: KM5F81CS	ş		G	Sdg/Rept Nbr: W05392	Nbr.	W05392	39341	Ξ	Colle	Collection Date: 05/05/2008 10:15	05/05/2	2008 10	:15	
Clie	Client Id:	Y Y			2	Matrix:		WATER	WA	WATER	Sami	Sample On Date:				
Moi	Moisture/Solids%*:	:*%sb			G	QC Type:		BS			Rece	Received Date:	05/05/2008	3008		
SAF	SAF Nbr	Contract Nbr		Test User	Case	Nor	SAS Nbr	Suffix		Decant	Distilled Volume		File Id		FSuffix RTyp	ay Ty
	2	MW6-SBB-A19981	_												BC	I
Batch # /	Analyt				å		Tracer	ser Spk Conc/	onc/	Analy	Aliq	Date/Time	RPD/	RER	S	O.
Qc Type	CAS#	Orig Rst	Ę	t Uncert 25	T	MDC	Yie		ပ္က	Method	Size/	Analyzed	บี	r S	LCL/UCL Typ	۳ ج
8134490	09-00	3.27E+01	PCIV	pCi/L 6.7E+00		3.05E+00	0	3.05E+01		GAMMA_GS	2.5019E+0(2.5019E+00 06/05/2008			75	۵
BS	10198-40-0	P		6.7E+00				107.4			_	09:17			125	
8134490	CS-137	4.40E+01	PCIA	L 7.2E+00		3.60E+00	0	3.97E+01		GAMMA_GS	2.5019E+0(2.5019E+00 06/05/2008			2	٥
BS	10045-97-3	6.		7.2E+00				111.0			_	09:17			130	
8134490	EU-152	6.18E+01	PCIA	L 1.2E+01	>	1.60E+01	_	6.06E+01		GAMMA_GS	2.5019E+0(2.5019E+00 06/05/2008			2	٥
BS	14683-23-9	ō.		1,2E+01				102.0			ن	09:17			130	

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Thursday	Thursday, June 19, 2008	8008		ľ	estA	meric	a QC	TestAmerica QC Control Sample Report	Sample	Report			L	Lab Code: TARL	TARL	
	FormNbr: R		ormat1	FormatType: FEAD	İ	VersionNbr: 05	or: 05	Z elle	ame: h:\R	File Name: h:\Reportdb\edd\Fead\V\Rad\W05392.Edd, h:\Reportdb\edd\Fead\V\Rad\39341.Edd	adiV\Rad\W053	92.Edd, h:\Rep	ortdb/edd/l	FeadIMR	ad\39341.	Edd
Lab	Lab Sample Id:	: KM5FT1CS	Ø		U)	dg/Rep	t Nbr:	Sdg/Rept Nbr: W05392	39341		Collec	Collection Date: 05/01/2008 09:16	05/01/2	2008 09	:16	
Clier	Client Id:	Ą			~	Matrix:		WATER	WATER	84	Samp	Sample On Date:				
Mois	Moisture/Solids%*:	:,%s			J	QC Type:		BS			Recei	Received Date: 05/01/2008	05/01/2	2008		
SAF Nbr	20	Contract Nbr MW6-SBB-A19981		Test User	Case Nbr		SAS Nbr	Suffix	Dec	Decant Di	Distilled Volume		File 1d		FSuffix RTyp BE H	Ę, I
Batch # /	Analyt/ CAS#	Result/ Orig Rst	S	Tot/Cnt Uncert 2S	충교	MDC		Tracer Spk Conc/ Yield %Rec		Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER	LCS R	- 5
8134482 ALPHA	ALPHA	1.92E+01	PCi/L	4.8E+00		8.84E-01	1 100.0			9310_ALPHAB	2.002E-01	06/10/2008			2	۵
2	1007			Z.0E+00				82.0			_	16:52			130	

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Thursday, June 19, 2008	19, 2008			TestA	merica	0C C	ontrol Sal	TestAmerica QC Control Sample Report	4		Lab	Lab Code: TARL	ARL
FormNbr: R	8	Format	FormatType: FEAD		VersionNbr: 05	95	File Nam	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	FeadIVIRadIW0538	92.Edd, h:\Repx	ortdb\edd\F	eadIWR	d\39341.Ec
Lab Sample Id:	e Id: KM5FV1CS	V1CS		w	Sdg/Rept Nbr: W05392	br: WC		39341	Collec	Collection Date: 05/01/2008 10:38	05/01/2	008 10	38
Client Id:	A			2	Matrix:	W	WATER	WATER	Samp	Sample On Date:			
Moisture/Solids%*:	olids%*:			G	QC Type:	BS			Recei	Received Date: 05/01/2008	05/01/2	800	
SAF Nbr	Contract Nbr MW6-SBB-A19981	981	Test User	Case	Nbr SA	SAS Nbr	Suffix	Decant	Distilled Volume		무		FSuffix RTyp BG H
Batch # / Analy/ Qc Type CAS# 8134483 BETA BS 12587.47-2	yv Result 3# Orig Rst 2.55E+01	•	ToWCnt Unit Uncert 2S ICI/L 4.7E+00 2.8E+00	å e	MDC 3.26E+00	Tracer Yield 100.0	Spk Conc/ %Rec 2.25E+01 113.3	Method 9310_ALPHAB	Aliq Size/ SB 2.003E-01	Date/Time Analyzed 06/10/2008	RPD/ UCL	RER/ UCL	LCL/UCL Typ 70 D

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Thursday, June 19, 2008 FormNbr: R	ī	ormatT	T FormatType: FEAD	estAn	America QC VersionNbr: 05	20 c	TestAmerica QC Control Sample Report	rol Sample Report File Name: h:\Reportdb\edd\read\read\read\read\read\read\read\	port	JIV/Rad/W0539	92.Edd, h:\Rep	Lal ortdb\edd\	Lab Code: TARL	ARL d/39341.E
Lab Sample Id: Client Id: Moisture/Solids**:	KM5G01CS NA			Sd	Sdg/Rept Matrix: QC Type:	Nbr. V	Sdg/Rept Nbr: W05392 Matrix: WATER QC Type: BS	39341 WATER		Collec Samp Receiv	Collection Date: 05/06/2008 12:46 Sample On Date: Received Date: 05/06/2008	05/06/2008	2008 12	46
Cont MW6-8	Contract Nbr MW6-SBB-A19981	-	Test User	Case Ni	Nbr	SAS Nbr	Suffix	Decant	Š	Distilled Volume		File Id	_	FSuffix RTyp BI H
Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	å a	MDC	Tracer	er Spk Conc/ d %Rec	c/ Analy Method	724	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER	LCS R LCL/UCL Typ
H-3 10028-17-8	2.24E+03	pCi/	pCi/L 2,1E+02	8	.52E+02	2.52E+02 100.0	2.71E+03		B_LSC	906.0_H3_LSC 5.00E-03	05/30/2008			75

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Thursday	Thursday, June 19, 2008	80		I	TestA	merica	200	America QC Control Sample Report	ımple	Repor	_			Lab	Lab Code: TARL	ARL	
	FormNbr: R	ď .	ormatTy	FormatType: FEAD		VersionNbr. 05	90	File Nat	ne: h:\Re	portdb/edd/	File Name: h:\Reportdb\edd\Fead\V\Rad\W05392.Edd, h:\Reportdb\edd\Fead\V\Rad\39341.Edd	'05392.Edd,	, h:\Report	db/edd/F	eadIWR	d\39341	Edd
Lab §	Lab Sample Id:	KM5G01EM	~		Ø	Sdg/Rept Nbr: W05392	lbr: W	/05392	39341		ပိ	Collection Date: 05/06/2008 12:46	Date:	05/06/2	008 12:	46	
Client Id:	it Id:	NA V			Σ	Matrix:	\$	WATER	WATER	œ	S	Sample On Date:	Date:				
Mois	Moisture/Solids%*:	: *%			G	QC Type:	B	BS			S.	Received Date: 05/06/2008	Jate:	05/06/2	800		
SAF Nbr		Contract Nbr MW6-SBB-A19981	۲	Test User	Case Nbr		SAS Nbr	Suffix	Decant	T T	Distilled Volume	аша	File M			FSuffix RTyp BK H	E H
Batch # / Oc Type	Analyt/ CAS#	Result/ Orig Rst	Fig	ToUCnt Uncert 2S	충표	MDC	Tracer	r Spk Cond		Analy Method	Aliq Size/	Date	Date/Time Analyzed	RPD/ UCL	RER	LCS R LCL/UCL Typ	بر ح ج
	H-3		pCi/L ;	2.1E+02		2.63E+02 100.0	100.0	2.71E+03		3.0 H3 LS	906.0_H3_LSC 5.00E-03		05/30/2008			75	۵
BS	10028-17-8			1.8E+02				83.7			ب		01:39			125	

TestAmerica

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide. J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL). B Qual - Analyte was found in the associated laboratory blank above the MDC.

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Thursday,	Thursday, June 19, 2008	% 0		T	estA	merica (2000	TestAmerica QC Control Sample Report	nple Repo	T			3	Lab Code: TARL	TARL	
	FormNbr: R	L	ormatī	FormatType: FEAD	-	VersionNbr: 05	05	File Name:	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	1/Fead	WRad/W0539	2.Edd, h:\Repo	ortdb/edd/F	eadIMF	tad/3934	1.Edd
Lab S	Lab Sample Id:	KM5GD1CS	Ø		Ű	Sdg/Rept Nbr: W05392	WO :		39341		Collec	Collection Date: 05/06/2008 12:34	05/06/2	13008	34	
Client Id:	<u>i</u> ;	Y Y			Σ	Matrix:	WA	WATER	WATER		Samp	Sample On Date:				
Moist	Moisture/Solids%*:	#			G	QC Type:	BS				Receiv	Received Date:	05/06/2008	8008		
SAF Nbr		Contract Nbr MW6-SBB-A19981		Test User	Case Nbr	Nbr SAS Nbr	ND	Suffix	Decant	Dist	Distilled Volume	Ě	File Id		FSuffix RTyp BN H	RIYP T
Batch #/	Analyt/	Result/	a a	Tot/Cnt	å T	COM	Tracer	Spk Conc/	Analy		Aliq Sira	Date/Time	RPD/	RER	LCS R	- 6
_	09-00	4.03E+01	PCi/L	-	i	2.98E+00		3.81E+01	GAMMALL GS	SS	2.0002E+00 06/05/2008	06/05/2008	}	3	5	, ₀
BS 1	10198-40-0			6.9E+00				105.9			ب	09:18			125	
8134491 C	CS-137	4.92E+01	PC!/L	8.0E+00		3.45E+00		4.96E+01	GAMMALL	SS	GAMMALL_GS 2.0002E+00 06/05/2008	06/05/2008			2	۵
BS 1	10045-97-3			8.0E+00				99.2			ب	09:18			130	
8134491 E	EU-152	7.14E+01	PCI/L	1.4E+01		7.85E+00		7.59E+01	GAMMALL	SS	GAMMALL_GS 2.0002E+00 06/05/2008	06/05/2008			20	۵
BS 1	14683-23-9			1.4E+01				94.2			ر	09:18			130	

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Thursday, June 19, 2008	2008			estA	merica	000	ontrol Sa	TestAmerica QC Control Sample Report	-		<u> </u>	Lab Code: TARL	ARL
FormNbr: R		FormatTy	FormatType: FEAD	>	VersionNbr: 05	92	File Nan	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	eadIV/Rad/W0539	2.Edd, h:\Rep	ortdb/edd/	FeadIVIR	ad\39341.E
Lab Sample Id: Client Id: Moisture/Solids%*:	: KM5GE1CS NA Is%*:	g		ŭ ≥ G	Sdg/Rept Nbr: W05392 Matrix: WATER QC Type: BS	Mar: Wol	W05392 WATER BS	39341 WATER	Collec Sampl Receiv	Collection Date: 05/06/2008 11:03 Sample On Date: Received Date: 05/06/2008	05/06/2	2008 11	8
SAF Nbr	Contract Nbr MW6-SBB-A19981	F	Test User	Case	Nbr SA	SAS Nbr	Suffix	Decant	Distilled Volume	Ē	File Id	_	FSuffix RTyp BP H
Batch # / Analyt/ Qc Type CAS# 8134492 SR-90 BS 10098-97-2	Result Orig Rst 1.46E+01	PC/L	Tot/Cnt Unit Uncert 2S ICI/L 2.3E+00 8.7E-01	충표	MDC 6.73E-01	Tracer Yield 74.8	Spk Conc/ %Rec 1.35E+01 107.6		Analy Aliq Date/Time Method Size/ Analyzed SRISO_SEP_P 1.0004E+00 06/15/2008 L 06:01	Date/Time Analyzed 06/15/2008 06:01	RPD/ UCL	RER	LCS R LCL/UCL Typ 70 D 130

Thursday, June 19, 2008	, 2008			rest.	America	000	Control Sa	TestAmerica QC Control Sample Report	r.		Lat	Lab Code: TARL	TARL	
FormNbr: R	œ	Format	FormatType: FEAD		VersionNbr: 05	30 :	File Nam	e: h:\Reportdb\ec	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	92.Edd, h:\Rep	ortdb/edd/	FeadIWR	ad\39341.	Edd
Lab Sample Id:	id: KM5GK1CS	K1CS		34	Sdg/Rept Nbr: W05392	Nbr: v	V05392	39341	Colle	Collection Date: 05/06/2008 12:34	05/06/2	2008 12	46	
Client Id:	AN				Matrix:	>	WATER	WATER	Sam	Sample On Date:				
Moisture/Solids%*:	ids%::				QC Type:	ш	BS		Rece	Received Date:	05/06/2008	2008		
SAF Nbr	Contract Nbr MW6-SBB-A19981		Test User	Case	NDc S	SAS Nbr	Suffix	Decant	Distilled Volume		File Id	_	FSuffix RTyp BR H	E =
Batch # / Analyt/ Qc Type CAS#	V Result	at Onit	Tot/Cnt Uncert 2S	å F	MDC	Tracer Yield	er Spk Conc/ d %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER	LCS R	د ج
8134493 I-129L	4.70E+01		pCI/L 6.1E+00		2.04E+00 98.1	98.1	4.52E+01		1129_SEP_LEP 5.002E-01	06/06/2008			00	۵
BS 15046-84-1	4-1		6.1E+00				103.9		_	07:18			130	

TestAmerica

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide. J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL). B Qual - Analyte was found in the associated laboratory blank above the MDC. rptFeadRadEdd v3.68

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Thursda	Thursday, June 19, 2008	80			Test.	America	200	Control Sa	TestAmerica QC Control Sample Report	_		<u>-</u>	Lab Code: TARL	TARL	
	FormNbr: R	F.)rmatT)	FormatType: FEAD	-	VersionNbr: 05	. 05	File Nan	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	eadIV/Rad/W0539	2.Edd, h:\Repo	ortdb/edd/	FeadIME	ad\39341.	Edd
Lab	Lab Sample Id: Client Id:	KM5GM1CS	(n			Sdg/Rept Nbr: W05392	Nbr: ×	W05392 WATER	39341 WATER	Collec	Collection Date: 04/29/2008 08:00	04/29/	2008 08	00:	
Mois	Moisture/Solids%*:					QC Type:	. М	BS	i	Receiv	Received Date: 05/01/2008	05/01/2	2008		
SAF Nbr		Contract Nbr MW6-SBB-A19981	=	Test User	Case	JQN	SAS Nbr	Suffix	Decant	Distilled Volume	Ē	File Id		FSuffix RTyp BT H	E I
Batch # /	Analyt/ CAS#	Result/ Orig Rst	r i	Tot/Cnt Uncert 2S	충표	MDC	Tracer	r Spk Conc/	c/ Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS R	ب ع –
8134494 I-129L	I-129L	9.21E+00	PCIF	pCi/L 1.1E+00		2.88E-01	98.4	9.65E+00	Alleren	1129LL_SEP_L 3.9885E+00 06/06/2008	06/06/2008			2	۵
BS	15046-84-1			1.1E+00				95.5		٦	05:32			130	

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hursday,	Thursday, June 19, 2008	806			TestA	meric	2 QC	Cont	rol San	TestAmerica QC Control Sample Report	+		2	Lab Code: TARL	LARI	
5	FormNbr: R		FormatTy	FormatType: FEAD		VersionNbr: 05	92:		File Name	h:\Reportdb\edd\	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	2.Edd, h:\Rep	ortdb/edd/	FeadIMR	ad\39341	.Edc
Lab Sa	Lab Sample Id:	KM5GV1CS	Ş		U)	dg/Rep	t Nbr:	Sdg/Rept Nbr: W05392		39341	Collect	Collection Date: 05/06/2008 12:34	05/06/	2008 12	34	
Client Id:	<u></u>	NA .			_ '	Matrix:		WATER		WATER	Sampl	Sample On Date:				
Moist	Moisture/Solids%":	:-%:		MINISTER MANAGEMENT	_	QC Iype:		BS			Receiv	Received Date: 05/06/2008	02/06/	2008		
SAF Nbr		Contract Nbr MW6-SBB-A19981	F	Test User	Case	Nbr	SAS Nbr		Suffix	Decant	Distilled Volume	Ē	File Id		FSuffix RTyp BV H	E.
Batch #/ Qc Type	Analyti CAS#	Result/ Orig Rst	Ę	Tot/Cnt Uncert 2S	충동	MDC		Tracer	Spk Cond	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER	LCL/UCL Typ	7
_	Uranium 7440-61-1	3.48E+01	ng/L	4.1E+00 4.1E+00		8.38E-02	2	., .,	3.61E+01 96.3	UTOT_KPA	2.50E-02 ML	06/12/2008			75 125	Ω

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Thursday, Jr.	Thursday, June 19, 2008	•			Test.	America	10C	Control Sa	TestAmerica QC Control Sample Report	+		3	Lab Code: TARL	TARL	
For	FormNbr: R	8 7	Format	FormatType: FEAD		VersionNbr: 05	30 :	File Na	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	FeadIV/Rad/W0539	2.Edd, h:\Repo	ortdb\edd\	FeadIWF	ad\39341.	8
Lab Sar	Lab Sample Id:	KM5GV1DS	S			Sdg/Rept Nbr: W05392	Nbr:	W05392	39341	Collect	Collection Date: 05/06/2008 12:34	05/06/	2008 12	34	
Client Id:	ij	¥				Matrix:		WATER	WATER	Sampl	Sample On Date:	22			
Moistur	Moisture/Solids%*:					QC Type:		BS		Receiv	Received Date: 05/06/2008	05/06/	2008		
SAF Nbr		Contract Nbr MW6-SBB-A19981		Test User	Case	Ng.	SAS Nbr	Suffix	Decant	Distilled Volume	Ĭ	File Id		FSuffix RTyp BW H	E ±
2.9	Analyti CAS# Uranium	Result/ Orig Rst 3.29E+00	Unit Ug/L	Tot/Cnt Uncert 28 3.4E-01	ਰੇ ਵ	. MDC 8.32E-02	Tracer		nc/ Analy : Method : UTOT_KPA	Aliq Size/ 2.52E-02	Date/Time Analyzed 06/12/2008	RPD/ UCL	RER	LCS R LCL/UCL Typ 75 D	
BS 74	7440-61-1			3.4E-01				92.0		¥	14:45				125

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Thursday,	Thursday, June 19, 2008	8			rest.	merica	20	Control S	TestAmerica QC Control Sample Report	ŗ			3	Lab Code: TARL	LARIT	
F.	FormNbr: R		ormatT	FormatType: FEAD		VersionNbr: 05	95	File N	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	d\Feadl	V/Rad/W0539	2.Edd, h:\Repo	ortdb/edd/	FeadIWR	ad\39341.	Edd
Lab S	Lab Sample Id:	KM5HC1CS	Ŋ		v,	Sdg/Rept Nbr: W05392	Abr:	V05392	39341		Collec	Collection Date: 05/05/2008 11:01	05/05/2	2008 11	:01	
Client Id:	<u></u>	Y Y			_	Matrix:	2	WATER	WATER		Samp	Sample On Date:				
Moist	Moisture/Solids%*:	:.*9			J	QC Type:		BS		17 A	Receiv	Received Date: 05/05/2008	05/05/	2008		
SAF Nbr		Contract Nbr MW6-SBB-A19981	-	Test User	Case	Nbr SA	SAS Nbr	Suffix	Decant	Disti	Distilled Volume		Fletd		FSuffix RTyp BY H	Typ H
Batch # / Qc Type	Analyti CAS#	Result/ Orig Rst	Sign	Tot/Cnt Uncert 2S	충등	MDC	Tracer	er Spk Conc/ d %Rec	nc/ Analy		Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS R	-
8134499 TC-99	66-01	5.12E+02	PCI/L	pCi/L 3.6E+01		9.90E+00	100.0	5.40E+02		LS 1	TC99_SEP_LS 1.2558E-01	06/13/2008			2	۵
BS 1	14133-76-7			1.3E+01				94.7			ب	02:33			130	

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FormNbr: R		matTyp	T FormatType: FEAD	estAm	merica Q(င် လူ	ontrol Sa File Nam	TestAmerica QC Control Sample Report VersionNbr: 05 File Name: h:\Reportdb\edd\Fead\V\Rad\V\05392.Edd, h:\Reportdb\edd\Fead\V\Rad\39341.Edd	eadIV/Rad\W0539	32.Edd, h:\Repc	Lab ortdb\edd\F	Lab Code: TARL	ARL 1d\39341.Ed
Lab Sample Id: Client Id: Moisture/Solids%*:	KM5HD2CS NA S%*:			Sdg	Sdg/Rept Nbr: W05392 Matrix: WATER QC Type: BS	or: WO	W05392 WATER BS	39341 WATER	Collec Samp Recein	Collection Date: 05/06/2008 07:30 Sample On Date: Received Date: 05/06/2008	05/06/2	008 07	30
SAF Nbr	Contract Nbr MW6-SBB-A19981	T _e	Test User	Case Nbr	r SAS Nbr	ğ	Suffix	Decant	Distilled Volume		File Id		FSuffix RTyp CA H
Batch # / Analyt Qc Type CAS# 8155308 TC-99 BS 14133-76-7	Result Orig Rst 5.20E+02	DCI/L 3	Tot/Cnt Uncert 28 3.7E+01 1.3E+01	Q = 0.00	MDC 9.83E+00	Tracer Yield 100.0	Spk Conc/ %Rec 5.44E+02 95.5	Method TC99_ETVDSK	Aliq Size/ 1.2533E-01 L	Date/Time Analyzed 06/04/2008 15:04	RPD/ UCL	RERV	LCS R LCL/UCL Typ 75 D 125

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U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide. J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL). B Qual - Analyte was found in the associated laboratory blank above the MDC.

3S	TAI	ME	RI	CA	

Lab Code: TARL	l, h:∖Reportdb\edd\Fead	Collection Date: 05/05/2008 11:33 Sample On Date: 05/05/2008	File Id	Date/Time RPD/ RER/ Analyzed UCL UCL 06/16/2008
+	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	Collection Date: Sample On Date: Received Date:	Distilled Volume	Aliq Dat Size/ An 2.00E-01 06/1
TestAmerica QC Control Sample Report	h:\Reportdb\edd\	39341 WATER	Decant	Analy Method C14_LSC
ontrol Sam	File Name:		Suffix	Spk Conc/ %Rec 4.75E+01
ca QC C	br: 05	N N	SAS Nbr	Tracer MDC Yield 8.20E+00 100.0
estAmeri	VersionNbr: 05	Sdg/Rept Matrix: QC Type:	Case Nbr	Qu- al MDC 8.20E+0
Ĭ	FormatType: FEAD		Test User	Tot/Cnt Uncert 2S 5.8E+00
	FormatTy	g		Unit
90		KPLMH1CS NA	Contract Nbr MW6-SBB-A19981	Result/ Orig Rst 4.55E+01
Thursday, June 19, 2008	FormNbr: R	Lab Sample Id: Client Id: Moisture/Solids%*:		Analyt/ CAS# C-14
Thursday,	L :	Lab Samp Client Id: Moisture/	SAF Nbr	Batch # / An Qc Type C. 8161360 C-14 RS 1476

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Iplicate Report Lab Code: TARL File Name: h:\Reportdb\edd\Fead\VRad\V05392.Edd, h:\Reportdb\edd\Fead\VRad\39341.Edd	Collection Date: 05/01/2008 10:38 Sample On Date: Received Date: 05/01/2008	Distilled Volume File Id	Analy Aliq Date/Time RPD/ RER/ Method Size/ Analyzed UCL UCL 9310_ALPHAB 2.00E-01 06/10/2008 57.7 2.3
TestAmerica QC Duplicate Report	W05392 39341 WATER WATER DUP	Suffix Decant	Spk Conc/ Analy %Rec Method 9310_AL
TestAmerica QC	Sdg/Rept Nbr: W05392 Matrix: WATER QC Type: DUP	Case Nbr SAS Nbr	Qu- Tracer al MDC Yield 2.74E+00 100.0
FormatType: FEAD	1ER 9	Test User 81	Tot/Cnt Unit Uncert 2S D pCi/L 2.0E+00
Thursday, June 19, 2008 FormNbr: R	Lab Sample Id: KME201ER Client Id: B1VC19 Moisture/Solids%*:	SAF Nbr Contract Nbr 108-025 MW6-SBB-A19981	Batch # / Analyth Result Qc Type CAS# Orig Rst 8134483 BETA 7.33E+00 PARS A 22 A 22 A OFE E DO

Thursday, June 19, 2008	800			Te	stAmer	ica (C Duplic	TestAmerica QC Duplicate Report			LE	Lab Code: TARL	FARL
FormNbr: R		ormatT	FormatType: FEAD		VersionNbr: 05	: 05	File Na	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	eadIV\Rad\W0539	2.Edd, h: Repo	ortdb/edd/	FeadIVAR	ad\39341.E
Lab Sample Id:	KME2Q1CR	œ		v	Sdg/Rept Nbr: W05392	Nbr: \	N05392	39341	Collec	Collection Date: 04/29/2008 08:00	04/29/2	8008 08	00:
Client Id:	B1T3L4			2	Matrix:		WATER	WATER	Samp	Sample On Date:			
Moisture/Solids%*:	:,%\$	10		3	2C Type:	_	DUP		Receiv	Received Date: 05/01/2008	05/01/2	3008	
SAF Nbr C 108-023 MV	Contract Nbr MW6-SBB-A19981	. н	Test User	Case	ğ	SAS Nbr	Suffix	Decant	Distilled Volume	É	File Id		FSuffix RTyp
Batch # / Analyt/ Qc Type CAS#	Result/ Orig Rst	S	Tot/Cnt Uncert 2S	충표	MDC	Tracer	er Spk Conc/	nc/ Analy	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER	LCL/UCL Typ
	6.09E-02	PCI/L	1.4E-01	ם	2.69E-01	94.6		1129LL_SEP_L	L 3.8783E+00 06/05/2008	06/05/2008	114.2	9.0	
DUP 15046-84-1	1.66E-02		1.4E-01						_	17:49	20.0	ď	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide. J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL). B Qual - Analyte was found in the associated laboratory blank above the MDC.

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Thursday, June 19, 2008	re 19, 2008	9 0			_	TestA	nerics	200	Duplicat	TestAmerica QC Duplicate Report				Lat	Lab Code: TARL	ARL	
Form	FormNbr: R		Format	FormatType: FEAD		Version	VersionNbr: 05	2	File Name	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	NFeadIV/R	ad/W0539	2.Edd, h:\Repo	ortdb/edd//	-eadIV/R	ad/39341	P =
Lab Sample Id: Client Id: Moisture/Solids	Lab Sample Id: Client Id: Moisture/Solids%*:	KME2V1ER B1VC18	œ			Sdg/Rept Matrix: QC Type:	Sdg/Rept Nbr: W05392 Matrix: WATER QC Type: DUP	: W05392 WATER DUP		39341 WATER		Collec Sampl Receiv	Collection Date: 05/01/2008 09:16 Sample On Date: Received Date: 05/01/2008	05/01/2008	2008 09	9	
SAF Nbr 108-025	Cor	Contract Nbr MW6-SBB-A19981		Test User	Case	Se Nbr	SAS Nbr	٩	Suffix	Decant	Distille	Distilled Volume	Ē	File Id		FSuffix RTyp CD H	를 I
Batch#/ A	Analyt/ CAS#	Result Orig Rst	S C	Tot/Cnt t Uncert 2S	s &	MDC		Tracer	Spk Conc/ %Rec	Analy	~ 0	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS R	
8134482 ALPHA DUP 12587-4	ALPHA 12587-46-1	1.56E+00 1.21E+00	pCi/L	1.1E+00	Þ	1.56E	1.56E+00 100.0	0.00		9310_ALPHAB		2.00E-01	06/10/2008	25.2	9.4		۵

Thursday, June 19, 2008	9, 2008			Te	stAmeri	ca O	TestAmerica QC Duplicate Report	e Report			Lat	Lab Code: TARL	TARL
FormNbr: R	2	Format	FormatType: FEAD		VersionNbr: 05	92	File Nam	: h:\Reportdb\edd	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	92.Edd, h:\Repo	ortdb/edd/	-eadIVIR	ad\39341.E
Lab Sample Id:	Id: KMK361FR	1FR		v	Sdg/Rept Nbr: W05392	br: W		39341	Collec	Collection Date: 05/05/2008 11:01	05/05/2	11 800	10.
Client Id:	B1V122	~		2	Matrix:	3	WATER	WATER	Samp	Sample On Date:			
Moisture/Solids%*:	iids%:			J	QC Type:	፩	DUP		Recei	Received Date:	05/05/2008	8008	
SAF Nbr W08-004	Contract Nbr MW6-SBB-A19981		Test User	Case	Nbr SAS	SAS Nbr	Suffix	Decant	Distilled Volume		File Id	Ra-Sir	FSuffix RTyp CG H
Batch # / Analy/ Qc Type CAS#	rv Result/ # Orig Rst	Unit	Tot/Cnt Uncert 2S	충두	MDC	Tracer	Spk Conc/ %Rec	/ Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER	LCS R
8134499 TC-99	3.01E+00		pCi/L 6.1E+00	Þ	9.89E+00	100.0		TC99_SEP_	TC99_SEP_LS 1.2545E-01	06/13/2008	14.0	0.1	
DUP 14133-76-7	76-7 2.61E+00	0	4.3E+00						_	02:33	20.0	c	

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Thursday	Thursday, June 19, 2008	80			Te	stAmeric	53 QC	TestAmerica QC Duplicate Report	e Report			Lab	Lab Code: TARL	ARL	
	FormNbr: R		ormat	FormatType: FEAD	1	VersionNbr: 05	95	File Name	h:\Reportdb\edd\	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	2.Edd, h:\Repo	rtdb\edd\f	eadIWR	d\39341.E	용
Lab	Lab Sample Id:	KMKW31KR	œ		U) i	Sdg/Rept Nbr: W05392			39341	Collect	Collection Date:	05/05/2	05/05/2008 10:15	15	
	Client Id:	BTIWZ9				Matrix:	≩	E E	WATER	Sampl	Sample On Date:				
Mois	Moisture/Solids%*:	:.%			3	C Type:	ă	DUP		Receiv	Received Date:	05/05/2008	8003		
SAF Nbr 108-032	a	Contract Nbr MW6-SBB-A19981		Test User	Case	Nbr SAS Nbr	Nbr	Suffix	Decant	Distilled Volume	File Id	Ð		FSuffix RTyp	ğπ
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	å =	MDC	Tracer	Spk Conc/ %Rec	Analy	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	רכועופר	۾ ڇ
8134490	BE-7	-3.44E+00	PCIA	8.3E+00	⊃	1.41E+01			GAMMA_GS	2.5006E+00 06/05/2008	06/05/2008	0.0	9.0		
8134490	13966-02-4	-5.59E+00	7.0	8.3E+00		1 805+00			CAMMAN	12:44	12:44	20.0	e .	7 6	
PUP	10198-40-0	-2.61E-01	2	1.0E+00	0	1.03E-100			CAUNINIA CO	Z.SuudE+uu L	12:44	20.0	ე რ 4	_	2
8134490	CS-134	2.02E-02	PCI/L	8.5E-01	5	1.57E+00			GAMMA_GS	2.5006E+00 06/05/2008	06/05/2008	0.0	0.4		0
DOL	13967-70-9	-2.12E-01	į			100				_	12:44	20.0			
8134490	10045-97-3	1.02E+00	PQF F	8.3E-01	>	1.66E+00			GAMMA_GS	2.5006E+00 06/05/2008	06/05/2008	1681.0	3.1		0
8134490	EU-152	-2.90E-01	PC//	1.9E+00	ם	3.34E+00			GAMMA_GS	2.5006E+00 06/05/2008	06/05/2008	267.8	1.7	u	_
DUP	14683-23-9	2.00E+00		1.9E+00						ب	12:44	20.0	8		
8134490	EU-154	3.65E-01	ğ		-	4.44E+00			GAMMA_GS	2.5006E+00 06/05/2008	06/05/2008	345.2	0.3		0
DO	15585-10-1	-9.71E-02		2.3E+00						_	12:44	20.0	က		
8134490	EU-155	-5.18E-01	PCIL	1.6E+00	>	2.81E+00			GAMMA_GS	2.5006E+00 06/05/2008	06/05/2008	0.0	0.8	_	0
DOP	14391-16-3	4.08E-01								_	12:44	20.0	က		
8134490	K-40	1.26E+01	PCi/L		>	1.51E+01			GAMMA_GS	2.5006E+00 06/05/2008	06/05/2008	0.0	5.6	٧	۵
PUP	13966-00-2	-2.34E+01		2.0E+01						_	12:44	20.0	က		
8134490	RU-106	-7.65E-02	PCI/L	7.9E+00	>	1.41E+01			GAMMA_GS	2.5006E+00 06/05/2008	06/05/2008	0.0	1.3	J	۵
PUP	13967-48-1	-7.49E+00								_	12:44	20.0	က		
8134490	SB-125	8.47E-02	PC!/L	_	>	3.49E+00			GAMMA_GS	2.5006E+00 06/05/2008	06/05/2008	0.0	-	J	۵
DUP	14234-35-6	-1.36E+00		1.9E+00							12:44	20.0	က		

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Thursday, June 19, 2008	800			Te	stAme	ica Q	C Duplica	TestAmerica QC Duplicate Report	223			Lab Coc	Lab Code: TARL	
FormNbr: R		ormatT	FormatType: FEAD		VersionNbr: 05	30	File Na	ne: h:\Reportdb\	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	/05392.Edd, h:\	Reportdb	edd\Fead	WRad/393	341.Edd
Lab Sample Id:	KMNC51CR	œ		Ø	Sdg/Rept Nbr: W05392	Nbr: V	105392	39341	o	Collection Date: 05/06/2008 11:03	te: 05/	3002/90	11:03	
Client Id:	B1TW23			2	Matrix:	S	WATER	WATER	v	Sample On Date:	ate:			
Moisture/Solids%*:	:.%:			G	QC Type:	0	DUP		œ	Received Date:		05/06/2008		
SAF Nbr C 108-032 MW	Contract Nbr MW6-SBB-A19981		Test User	Case	Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	пте	File Id		FSuff	FSuffix RTyp
Batch # / Analyt/ Qc Type CAS#	Result/ Orig Rst	ž.	ToVCnt Unit Uncert 2S	충류	MDC	Tracer	r Spk Conc/	c/ Analy Method	Aliq Size/	Date/Time Analyzed	me RPD/ ed UCL	DV RERV		LCS R LCL/UCL Typ
8134492 SR-90 DUP 10098-97-2	-2.52E-02 -9.46E-02	PCI/L	pCi/L 3.4E-01 3.4E-01	>	7.49E-01	70.2		SRISO	SRISO_SEP_P 9.9416E-01	E-01 06/15/2008 06:00		0.0 0.3	_	۵

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Thursday,	Thursday, June 19, 2008	80			Te	stAmeri	ica (TestAmerica QC Duplicate Report	ate F	leport				1	Lab Code: TARL	LAR!	
-	FormNbr: R	Œ	JrmatT)	FormatType: FEAD	-	VersionNbr: 05	93	File N.	ame: h:\	Reportdb/edd	Fead	V/Rad/W0539	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	ortdb/edd	FeadIMR	ad\39341.	Edd
Lab	Lab Sample Id:	KMNC81ER	~		S	Sdg/Rept Nbr: W05392	lbr.	W05392	39341	**		Collec	Collection Date: 05/06/2008 12:46	/90/50	2008 12	:46	
Client Id:	t Id:	B1VC57			2	Matrix:		WATER	WATER	ER		Samp	Sample On Date:	***			
Moist	Moisture/Solids%*:	\$ 2			J	QC Type:		DUP				Receiv	Received Date:	05/06/2008	2008		
SAF Nbr 108-036	L	Contract Nbr MW6-SBB-A19981		Test User	Case	Nbr	SAS Nbr	Suffix	ď	Decant	Dist	Distilled Volume	₢	File Id		FSuffix RTyp	E I
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Calt	Tot/Cnt Uncert 2S	ģ =	MDC	Tracer	er Spk Conc/)))	Analy Method		Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER	LCS R	_
~	H-3	6.00E+03	PCI/L	3.6E+02		2.52E+02 100.0	100.0		3)	906.0_H3_LSC 5.00E-03	SC	5.00E-03	05/30/2008	6.2	1.5		۵
DUP	10028-17-8	6.38E+03		2.5E+02								۳	20:47	20.0	m		

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U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide. J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL). B Qual - Analyte was found in the associated laboratory blank above the MDC.

TESTAMERICA

Thursday	Thursday, June 19, 2008	38			Ĭ	estAmeric	sa QC	TestAmerica QC Duplicate Report	Report			Lab	Lab Code: TARL	ARL	
	FormNbr: R	-	Format	FormatType: FEAD		VersionNbr: 05	92	File Name:	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	adIV/Rad/W0538	72.Edd, h:\Repo	rtdb\edd\F	-eadIWR	ad/39341.E	P
Lab	Lab Sample Id:	KMNDG1DR	æ		## F	Sdg/Rept Nbr: W05392	or: WC		39341	Collec	Collection Date: 05/06/2008 12:34	05/06/2	008 12	34	
Clie	Client Id:	B1TWR1			-	Matrix:	W	WATER W	WATER	Samp	Sample On Date:				
Mois	Moisture/Solids%*:	:.%			-	QC Type:	DUP	<u>a</u>		Recei	Received Date:	05/06/2008	800		
SAF Nbr		Contract Nbr MW6-SBB-A19981		Test User	Case	Nbr	SAS Nbr	Suffix	Decant D	Distilled Volume	File Id	2		FSuffix RTyp	ě I
Batch #/	Anaive	Result		Tot/Cnt	å		Tracer	Spk Conc/	Analy	Alia	Date/Time	RPD/	RER	S	œ
Oc Type	CAS#	Orig Rst	Chit	>	a	MDC	Yield		Method	Size/	Analyzed	NC.	CL	LCL/UCL Typ	Typ
8134491	BE-7	3.23E+00	Z	15	Þ	2.65E+01			GAMMALL_GS	GAMMALL_GS 2.0005E+00 06/05/2008	06/05/2008	112.6	8.0	_	۵
DOP	13966-02-4	1.15E+01		1.4E+01						ب	12:44	20.0	ო		
8134491	09-00	-7.63E-01	PCI/L	1.5E+00	>	2.53E+00			GAMMALLGS	GAMMALL_GS 2.0005E+00 06/05/2008	06/05/2008	1100.3	1.8	_	۵
DO	10198-40-0	1.10E+00		1.5E+00						٦	12:44	20.0	3		
8134491	CS-134	9.86E-01	PCi/L	1.6E+00	>	3.15E+00			GAMMALL_GS	GAMMALL_GS 2.0005E+00 06/05/2008	06/05/2008	47.6	0.5	_	٥
DOP	13967-70-9	1.60E+00		1.6E+00						_	12:44	20.0	က		
8134491	CS-137	-8.05E-01	PCI/L	1.5E+00	>	2.49E+00			GAMMALL_GS	GAMMALL_GS 2.0005E+00 06/05/2008	06/05/2008	0.0	0.3	_	0
DUP	10045-97-3	-4.79E-01		1.5E+00						_	12:44	20.0	က		
8134491	EU-152	4.04E+00	PCIA	3.6E+00	>	5.58E+00			GAMMALL_GS	GAMMALL_GS 2.0005E+00 06/05/2008	06/05/2008	0.0	ر . ت	_	٥
DUP	14683-23-9	-1.96E-01		3.6E+00						_	12:44	20.0	က		
8134491	EU-154	-5.72E+00	PCIT	4.3E+00	>	6.01E+00			GAMMALL_GS	GAMMALL_GS 2.0005E+00 06/05/2008	06/05/2008	0.0	1.3	_	۵
DUP	15585-10-1	-1.80E+00		4.3E+00						ن	12:44	20.0	က		
8134491	EU-155	1.52E+00	PCiY	2.7E+00	>	4.89E+00			GAMMALL_GS	GAMMALL_GS 2.0005E+00 06/05/2008	06/05/2008	203.4	8.0	_	۵
DOP	14391-16-3	-1.27E-02		2.7E+00						ب	12:44	20.0	က		
8134491	K-40	2.21E+01	PCi/L	2.3E+01	Þ	4.74E+01			GAMMALL_GS	GAMMALL_GS 2.0005E+00 06/05/2008	06/05/2008	58.5	7.	_	۵
DUP	13966-00-2	4.04E+01		2.3E+01						۷	12:44	20.0	က		
8134491	RU-106	1.41E+00	pCi/L	1.4E+01	>	2.47E+01			GAMMALL_GS	GAMMALL_GS 2.0005E+00 06/05/2008	06/05/2008	0.0	0.4	_	۵
DOP	13967-48-1	-2.97E+00		1.4E+01						_	12:44	20.0	က		
8134491	SB-125	1.32E-01	PCi/L	3.0E+00	>	5.45E+00			GAMMALL_GS	GAMMALL_GS 2.0005E+00 06/05/2008	06/05/2008	180.1	<u>-</u> -	_	۵
DO	14234-35-6	2.53E+00		3.0E+00						_	12:44	20.0	က		

TESTAMERICA

Thursday, June 19, 2008	2008			Ę	stAmeri	ica QC	TestAmerica QC Duplicate Report	Report			7	Lab Code: TARL	ARL
FormNbr: R		ormatT	FormatType: FEAD	2	VersionNbr: 05	92	File Name:	h:\Reportdb\ed	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	392.Edd, h:\Rep	ortdb/edd/	FeadIMR	ad\39341.E
Lab Sample Id:	: KMNDL1HR	ĸ		ű	Sdg/Rept Nbr: W05392	lbr: WO		39341	Colle	Collection Date: 05/06/2008 12:34	05/06/2	2008 12	34
Client Id:	B1TX39			Σ	Matrix:	WA	WATER M	WATER	Sam	Sample On Date:	¥E.		
Moisture/Solids%*:	!*%s!			a	QC Type:	DO	•		Rece	Received Date:	05/06/2008	2008	
SAF Nbr S08-004 M	Contract Nbr MW6-SBB-A19981		Test User	Case	Nbr SA	SAS Nbr	Suffix	Decant	Distilled Volume		File Id		FSuffix RTyp
Batch # / Analyti Qc Type CAS#	Result/ Orig Rst	Cult	Tot/Cnt Uncert 2S	Q 4	MDC	Tracer	Spk Conc/ %Rec	Analy	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RERU	LCS R
8134493 I-129L	-3.87E-01	PCI/L	pCi/L 9.1E-01	5	1.61E+00 99.7	2.66		1129_SEP_	129_SEP_LEP 5.001E-01	06/06/2008	0.0	4.0	
DUP 15046-84-1	.1 -1.42E-01		9.1E-01							07:16	200	ď	

TESTAMERICA

Thursday, June 19, 2008	19, 2008			Te	tAmeric	32 QC	estAmerica QC Duplicate Report	e Report			Ē	Lab Code: TARL	IARL	
FormNbr: R	R R	Format	FormatType: FEAD	>	VersionNbr: 05	92	File Name	ne: h:\Reportdb\edd\	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	2.Edd, h:\Rep	ortdb\edd\	FeadIWR	ad\39341.	Edd
Lab Sample Id:		KMNDL1JR B1TX39		ý Z	Sdg/Rept Nbr: W05392	W W		39341 WATER	Collec	Collection Date: 05/06/2008 12:34	05/06/2	2008 12	34	
Moisture/Solids%*:		3		ā	QC Type:	PUP			Receiv	Received Date: 05/06/2008	05/06/2	2008		
SAF Nbr S08-004	Contract Nbr MW6-SBB-A19981	9981	Test User	Case	Nbr SAS Nbr	ğ	Suffix	Decant	Distilled Volume	Ē	File Id		FSuffix RTyp CM H	ĘI
Batch # / Analyt/ Qc Type CAS#	85		Tot/Cnt Unit Uncert 2S	충제	MDC	Tracer	Spk Conc/ %Rec	•	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER	LCS R LCL/UCL Typ	ا نے
5134496 Uranium DUP 7440-61-1	m 2.8/E+00	760 00+	2.9E-01		8.12E-02			UIOI_KPA	2.58E-02 ML	06/12/2008 14:54	20.0	3 o.1		

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Thursday, June 19, 2008	2008			Ĕ	stAme	rica (TestAmerica QC Duplicate Report	ate R	eport			Lat	Lab Code: TARL	ARL
FormNbr: R		OrmatT	FormatType: FEAD	i	VersionNbr: 05	30	File Na	me: h:/R	eportdb/edd/Fe	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	92.Edd, h:\Rep	ortdb/edd/	eadIMR	ad/39341.
Lab Sample Id: Client Id: Moisture/Solids**:	: KMNE32GR B1TWF4 Is%*:	œ		0	Sdg/Rept Nbr: W05392 Matrix: WATER QC Type: DUP	i.	W05392 WATER DUP	39341 WATER	_ #	Coller Samp Recei	Collection Date: 05/04/2008 10:25 Sample On Date: Received Date: 05/06/2008	05/04/2	2008 10	52
SAF Nbr S08-004 M	Contract Nbr MW6-SBB-A19981		Test User	Case	Nbr	SAS Nbr	Suffix	å	Decant D	Distilled Volume	_	File Id		FSuffix RTyp CN H
Batch # / Analyt Qc Type CAS# 8155308 TC-99 DUP 14133-76-7	Result/ Orig Rst -5.25E+00	Unit PCI/L	ToVCnt Uncert 2S 5.4E+00	å = ⊃	MDC Yield 9.81E+00 100.0	Tracer Yield 700.0	cer Spk Conc/ ald %Rec 0	•	Analy Method IC99_ETVDSK	Analy Aliq Method Size/ TC99_ETVDSK 1.2577E-01	Date/Time Analyzed 06/04/2008	RPD/ UCL 0.0	RERV UCL 0.3	LCS R LCL/UCL Typ D

TestAmerica

TESTAMERICA

Thursday, June 19, 2008	98			Test	Americ	ca OC	Duplicat	TestAmerica QC Duplicate Report			3	Lab Code: TARL	TARL
FormNbr: R		ormatTy	FormatType: FEAD	\ \	VersionNbr: 05	88	File Name	9: h:\Reportdb\edc	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd	2.Edd, h:\Repk	ortdb\edd\	FeadIVIR	ad\39341.E
Lab Sample Id: Client Id:	KMNEL3GR B1TWF3	œ		Sdi	Sdg/Rept Nbr: W05392 Matrix: WATER	or: WO	20	39341 WATER	Collec	Collection Date: 05/06/2008 11:03 Sample On Date:	1/90/50	2008 11	:03
Moisture/Solids%*:	:*%			ဗ	2C Type:	DUP			Receiv	Received Date: 05/06/2008	05/06/2	2008	
SAF Nbr Co	Contract Nbr MW6-SBB-A19981	F	Test User	Case Nbr	or SAS Nbr	Nbr	Suffix	Decant	Distilled Volume		File Id	_	FSuffix RTyp
Batch # / Analyt/ Qc Type CAS#	Result/ Orig Rst	苦	Tot/Cnt Unit Uncert 2S	흥등	MDC	Tracer	Spk Conc/ %Rec		Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER	LCS R
8161360 C-14 DUP 14762-75-5	5.35E+03	PCIA	3.7E+01	0	8.20E+00	100.0		C14_LSC	2.00E-01 L	23:59	20.0	3 0.2	

TESTAMERICA

Thursday, June 19, 2008	19, 2008				Test	Ameri	ca O	c Mat	rix Spi	TestAmerica Qc Matrix Spike Report			2	Lab Code: TARL	TARL	
FormNbr: R	R	For	matTy	FormatType: FEAD	>	VersionNbr: 05	8		File Name	n: h:\Reportdb\edd\	File Name: h:\Reportdb\edd\Fead\V\Rad\W05392.Edd, h:\Reportdb\edd\Fead\V\Rad\39341.Edd	2.Edd, h:\Rep	ortdb/edd/	FeadIVE	tad/39341.	Eg
Lab Sample Id:		KMK361DW			ű	Sdg/Rept Nbr: W05392	Nbr:	W0539		39341	Collec	Collection Date: 05/05/2008 11:01	05/05/	2008 1	10:	
Client Id:	B1/	B1V122			Σ	latrix:		WATER		WATER	Sampl	Sample On Date:				
Moisture/Solids%*:	olids%*:				a	QC Type:		MS			Receiv	Received Date:	05/05/2008	2008		
SAF Nbr W08-004	Contract Nbr MW6-SBB-A19981	419981	ţ.	Test User	Case	NDT SS	SAS Nbr	Ī	Suffix	Decant	Distilled Volume		File Id		FSuffix RTyp	ĘΤ
Batch # / Analyt/ Qc Type CAS#		Result/ Orig Rst	Guit	Tot/Cnt Unit Uncert 2S	۾ ۾	MDC	토	Tracer	Spk Conc/ %Rec	Analy	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER	LCS R	
8134496 Uranium	• •	3.69E+01 ug	ng/L ,	4.4E+00		8.12E-02		e	3.52E+01	UTOT_KPA	2.58E-02	06/12/2008			O 09	۵
MS 7440-61-1	-			4 4F+00				•	104 0		2	44.40			440	

Thursday, June 19, 2008	une 19, 200a	86			Test	Americ	2 Qc]	Matrix S _l	TestAmerica Qc Matrix Spike Report			3	Lab Code: TARL	TARL	
For	FormNbr: R		ormatTy	FormatType: FEAD	>	VersionNbr: 05	93	File Nar	File Name: h:\Reportdb\edd\Fead\V\Rad\W05392.Edd, h:\Reportdb\edd\Fead\V\Rad\39341.Edd	eadIVIRadIW053	192.Edd, h:\Rep	ortdb/edd/	FeadIMR	ad\39341.	Edd
Lab Sar	Lab Sample Id:	KMK361EW	3		ŭ	Sdg/Rept Nbr: W05392	Whr. W	05392	39341	Colle	Collection Date: 05/05/2008 11:01	05/05/2	2008 11	.01	
Client Id:	ö	B1V122			Σ	latrix:	>	WATER	WATER	Sami	Sample On Date:				
Moistur	Moisture/Solids%*:	•		9	Ğ	QC Type:	MS	Ø		Recei	Received Date: 05/05/2008	05/05/2	3008		
SAF Nbr W08-004		Contract Nbr MW6-SBB-A19981	1	Test User	Case	Nbr SA	SAS Nbr	Suffix	Decant	Distilled Volume		File Id		FSuffix RTyp	E I
Batch # / Qc Type	Analyt/ CAS#	Result Orig Rst	Unit	Tot/Cnt Uncert 2S	a Q	MDC	Tracer	Spk Conc/	ic/ Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCL/UCL Typ	
0	TC-99	3.29E+03	PCI/L			9.89E+00 100.0	100.0	3.63E+03	8	TC99_SEP_LS 1.2514E-01	06/1			09	0
MS 14	14133-76-7			3.1E+01				8.06			02:33			140	

TESTAMERICA

Thursday, .	Thursday, June 19, 2008	80			Test	Americ	3 Oc	Matrix Sp	TestAmerica Qc Matrix Spike Report	+		La	Lab Code: TARL	TARL	
8	FormNbr: R	1	ormatT	FormatType: FEAD	-	VersionNbr: 05	8	File Nan	ie: h:\Reportdb\e	File Name: h:\Reportdb\edd\FeadIV\Rad\W05392.Edd, h:\Reportdb\edd\FeadIV\Rad\39341.Edd)5392.Edd, h:\Re	oortdb/edd/	FeadIWF	ad\39341.	B
Lab Sa	Lab Sample Id:	KMNE62GW	3		σ	Sdg/Rept Nbr: W05392	√br: ∨	05392	39341	3	Collection Date: 05/06/2008 07:30	05/06/2	2008 07	30	
Client Id:	19:	B1TWF0			Σ	Matrix:	\$	WATER	WATER	Sa	Sample On Date:				
Moistu	Moisture/Solids%*:				ď	QC Type:	2	MS		Re	Received Date: 05/06/2008	/90/90	2008		
SAF Nbr S08-004	E. 5	Contract Nbr MW6-SBB-A19981		Test User	Se Case	Nbr	SAS Nbr	Suffix	Decant	Distilled Volume		File Id		FSuffix RTyp	E I
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	G	Tot/Cnt Uncert 2S	å æ	MDC	Tracer	r Spk Conc/ %Rec	c/ Analy Method	Aliq	Date/Time Analyzed	RPD/ UCL	RER	LCS R	-
8155308 T	TC-99	3.46E+03	PC!/L			9.80E+00	100.0	3.59E+03		TC99_ETVDSK 1.2563E-01	01 06/04/2008			09	۵
MS 12	14133-76-7			3.2E+01				96.6			12:59			140	

TestAmerica

TESTAMERICA

TA Richland Hexavalent Chromium - Water

Analyst:	L. D	L. Dinh		Calibration Cu	Calibration Curve Information		SOP Int	SOP Information	BATCH #	8126529
Start Date:	2/2/2008	2008		Amount	Conc.(mg/L)	ABS.	RICH-V	RICH-WC-5003	# 50S	
Start Time:	15.	15:00	Blank	0.000	0.000	0.000	Revi	Revision 7	Matrix	Water
End Date:	2/2/5	5/5/2008	Std. 1	0.100	0.050	0.095				
End Time	16.	16:00	Std. 2	0.500	0.250	0.483			Instrument Information	ormation
	6		Std. 3	0.750	0.375	0.728	MDL (mg/L)	0.002	Instrument:	Hach DR2010
Analyst Signature:	ure: Lund	1	Std. 4	1.500	0.750	1.421			Wavelength:	540
			S PIS	2.000	1.000	1.873			R Squared	0.99979
Date: 5/5/09	80		Standard Volume (mL):	me (mL):		100.000			Slope:	1.87569
			Date of Curve:			5/5/2008			Intercept:	0.00858
				=						
			Calibration	pration information:	ICV Information:	mation:	LCS Info	CS Information:	Matrix Spike	Matrix Spike Information:
Dilution ID #			Cr-08	Cr-08-00089	Cr-08-	Cr-08-00090	Cr-08	Cr-08-00089	Cr-08	Cr-08-00089
Prep Date:			02/0	05/05/08	0/90	05/05/08	VS0	80/90/90	0/90	80/20/50
Concentration (mg/L)	(mg/L)		5	20	2	50		50	45	00
Expiration Date:	e:		0/90	90/90/50	0/90	80/90/50	V20	05/06/08	0/90	80/90/50
Pipettor(s)	1000000		70,	70,190	1	190		190		190
Volume Used	Expecte	Expected Value			1.000	0.50000	1.00	0.50000	0.50	0.26316
					Expec	ted values are	only amounts ac	dded in mg and r	Expected values are only amounts added in mg and not final concentrations	ations
Sample ID	Client ID	Type	Sample Volume (mL)	Sample ABS.	Blank ABS.	Corrected ABS.	Dilution Factor	Curve Conc. (mg/L)	Final Conc. (mg/L)	% Reć. ்
n/a	n/a	ICV	100.000	0.965	0.000	0.965	-	0.5099	0.510	101.98%
n/a	n/a	ICB	100.000	0.000	0.000	0.000	-	<mdl <<="" td=""><td><mdl< td=""><td></td></mdl<></td></mdl>	<mdl< td=""><td></td></mdl<>	
KMK1N1AA	n/a	Prep Blank	100.000	0.000		0.000	•	-WDL	<mdl< td=""><td></td></mdl<>	
KMK1N1AC	n/a	SOT	100.000	0.962		0.962	-	0.5083	0.508	101.66%
KMKW31AA_	B1TW29'	Sample	100.000	0.033		0.033	-	0.0130	0.013	
KMKW31AQES B1TW29-MS	B1TW29'-MS	MS	100.000	0.540		0.540	1	0.2833	0.285 0.37	D 102.71%
KMKW31ADED	KMKW31ADED B1TW29-MSD	MSD	100.000	0.539		0.539		0.2828	12850,27	P 102.51%
KMKW31AE-X	B1TW29'-DUP	Duplicate	100.000	0.033		0.033		0.0130	0.013	SESSISION
н	5 15/5/08	138	100.000							
			100.000				-			
	0,000		100.000				-			-
			100.000				-			
n/a	n/a	ccv	100.000	0.963		0.963	•	0.5088	0.509	101.77%
n/a	n/a	CCB	100.000	-0.001		-0.001	1	-WDL	<mdl< td=""><td></td></mdl<>	
			100.000				-			
			100.000				1			
			100.000				-			
			100.000				-			
			100.000				-			

Data Review/Verification Checklist RADIOCHEMISTRY, First Level Review

6/11/2008 10:05:28 AM

Lot No., Due Date:

J8E010329,J8E050216,J8E050200,J8E070113,J8E070115; 06/20/2008

Client, Site:

384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8134482; RALPHA-A Alpha by GPC-Am

W05392- WATER

OG, Matrix: W05392;	WATER			
S the ICOC page complete; includes all	applicable analysis, dates, SOP numbers, and revisions?	Yes	No	N/A
OC Batch Do the Summary/Detailed Reports include	e a calculated result for each sample listed on the QC Batch Sheet?	Yes	No	N/A
Are the QC appropriate for the analysis i	ncluded in the batch?	Yes	No	N/A
Is the Analytical Batch Worksheet compl	ete; includes as appropriate, volumes, count times, etc?	Yes	No	N/A
Does the Worksheets include a Tracer V	ial label for each sample?	Yes	No	NA
QC & Samples Is the blank results, yield, and MDA withi	n contract limits?	Yes	No	N/A
Is the LCS result, yield, and MDA within o	contract limits?	Yes	No	N/A
Are the MS/MSD results, yields, and MD/	A within contract limits?	Yes	No	NA
Are the duplicate result, yields, and MDA	s within contract limits?	Yes	No	N/A
Are the sample yields and MDAs within c	ontract limits?	Yes	No	N/A
Raw Data Were results calculated in the correct unit	ts?	Yes	No	N/A
Were analysis volumes entered correctly	?	Yes	No	N/A
Were Yields entered correctly?		Yes	No	N/A
Were spectra reviewed/meet contractual	requirements?	Yes	No	NA
Were raw counts reviewed for anomalies	?	Yes	No	N/A
Other Are all nonconformances included and no	oted?	Yes	No	NA
Are all required forms filled out?		Yes	No	N/A
Was the correct methodology used?		Yes	No	N/A
Was transcription checked?		Yes	No	N/A
Were all calculations checked at a minim	um frequency?	Yes	No	NA
Are worksheet entries complete and com-	ect?	Yes	No	N/A
	Is the ICOC page complete; includes all a OC Batch Do the Summary/Detailed Reports include Are the QC appropriate for the analysis in Is the Analytical Batch Worksheet complete Does the Worksheets include a Tracer Violage Samples Is the blank results, yield, and MDA within the LCS result, yield, and MDA within the Are the MS/MSD results, yields, and MDA Are the duplicate result, yields, and MDA Are the sample yields and MDAs within the sample yields and MDAs within the Care results calculated in the correct unit. Were analysis volumes entered correctly. Were Yields entered correctly? Were spectra reviewed/meet contractual. Were raw counts reviewed for anomalies. Other Are all required forms filled out? Was the correct methodology used? Was transcription checked? Were all calculations checked at a minim.	Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions? OC Batch Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet? Are the QC appropriate for the analysis included in the batch? Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc? Does the Worksheets include a Tracer Vial label for each sample? OC & Samples Is the blank results, yield, and MDA within contract limits? Is the LCS result, yield, and MDA within contract limits? Are the MS/MSD results, yields, and MDA within contract limits? Are the duplicate result, yields, and MDAs within contract limits? Are the sample yields and MDAs within contract limits? Raw Data Were results calculated in the correct units? Were analysis volumes entered correctly? Were Yields entered correctly? Were Spectra reviewed/meet contractual requirements? Other Are all required forms filled out? Was the correct methodology used?	COC Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions? CE Batch Do the Summary/Detailed Reports include a calculated result for each sample listed on the OC Batch Sheet? Are the OC appropriate for the analysis included in the batch? Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc? Yes Does the Worksheets include a Tracer Vial label for each sample? OC & Samples Is the blank results, yield, and MDA within contract limits? Is the LCS result, yield, and MDA within contract limits? Are the MS/MSD results, yields, and MDA within contract limits? Are the duplicate result, yields, and MDAs within contract limits? Are the sample yields and MDAs within contract limits? Raw Data Were results calculated in the correct units? Were analysis volumes entered correctly? Were Yields entered correctly? Were Yields entered correctly? Were spectra reviewed/meet contractual requirements? Very Other Are all nonconformances included and noted? Are all nonconformances included and noted? Was the correct methodology used? Was transcription checked? Were all calculations checked at a minimum frequency?	COC Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions? Yes No ICC Batch Do the Summary/Detailed Reports include a calculated result for each sample listed on the OC Batch Sheet? Are the OC appropriate for the analysis included in the batch? Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc? Yes No Does the Worksheets include a Tracer Vial label for each sample? OC & Samples Is the blank results, yield, and MDA within contract limits? Is the blank results, yield, and MDA within contract limits? Yes No Are the MS/MSD results, yields, and MDA within contract limits? Yes No Are the duplicate result, yields, and MDAs within contract limits? Yes No Raw Data Were results calculated in the correct units? Yes No Were analysis volumes entered correctly? Were Yields entered correctly? Yes No Were spectra reviewed/meet contractual requirements? Yes No Other Are all nonconformances included and noted? Are all required forms filled out? Was the correct methodology used? Were all calculations checked at a minimum frequency? Were all calculations checked at a minimum frequency?

First Level Review

6.0 Comments on any No response:

QAS_RADCALCv4.8.33

Date _6-11-8

TAL Richland



Data Review Checklist RADIOCHEMISTRY Second Level Review

Batch Number: 7134482	Batch Number:	7134482	
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Review Item	Yes (√)	No (√)	NA (v)
A. Sample Analysis			/
Are the sample yields within acceptance criteria?			V
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	//	a	-
3. Are the correct isotopes reported?	1		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤the Contract Detection Limit?	1/		
2. Does the blank result meet the Contract criteria?	V,		
3. Is the blank result < the Contract Detection Limit?	J		,
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?	1		
5. Is the LCS recovery within contract acceptance criteria?	V/		
6. Is the LCS Minimum Detectable Activity ≤the Contract Detection Limit?			/
7. Do the MS/MSD results and yields meet acceptance criteria?			V
8. Do the duplicate sample results and yields meet acceptance criteria?			
C. Other 1. Are all Non-conformances included and noted?	1		
2. Are all required forms filled out?	V,		
3. Was the correct methodology used?	V.		
Was transcription checked?	J,		
5. Were all calculations checked at a minimum frequency?			
6. Were units checked?)		

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LS-038B, Rev. 10, 9/07

Second Level Review:

Date: 4/11/8

Data Review/Verification Checklist RADIOCHEMISTRY, First Level Review

6/11/2008 10:00:51 AM

Lot No., Due Date:

J8E010329,J8E050216,J8E050200,J8E070113,J8E070115; 06/20/2008

Client, Site:

384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8134483; RBETA-SR Beta by GPC-Sr/Y

SDG. Matrix:

W05392: WATER

SD	OG, Matrix: W05392; WATER			
1.0 1.1	COC Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	Yes	No	N/A
2.0 2.1	QC Batch Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Shee	et? Yes	No	N/A
2.2	Are the QC appropriate for the analysis included in the batch?	Yes	No	N/A
2.3	Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	Yes	No	N/A
2.4	Does the Worksheets include a Tracer Vial label for each sample?	Yes	No	NA
	QC & Samples Is the blank results, yield, and MDA within contract limits?	Yey	No	N/A
3.2	Is the LCS result, yield, and MDA within contract limits?	Yes	No	N/A
3.3	Are the MS/MSD results, yields, and MDA within contract limits?	Yes	No	NA
3.4	Are the duplicate result, yields, and MDAs within contract limits?	Yes	No	N/A
3.5	Are the sample yields and MDAs within contract limits?	Yes	No	N/A
	Raw Data Were results calculated in the correct units?	Yeş	No	N/A
4.2	Were analysis volumes entered correctly?	Yes	No	N/A
4.3	Were Yields entered correctly?	Yes	No	NA
4.4	Were spectra reviewed/meet contractual requirements?	Yes	No	NIA
4.5	Were raw counts reviewed for anomalies?	Yes	No	N/A
	Other Are all nonconformances included and noted?	Yes	No	NA
5.2	Are all required forms filled out?	Yes	No	N/A
5.3	Was the correct methodology used?	Yes	No	N/A
5.4	Was transcription checked?	Yes	No	N/A
5.5	Were all calculations checked at a minimum frequency?	Yes	No	NA
5.6	Are worksheet entries complete and correct?	Yeg	No	N/A

First Level Review _

6.0 Comments on any No response:

TAL Richland

QAS_RADCALCv4.8.33

Date 6-11-8

Page 1



Data Review Checklist RADIOCHEMISTRY Second Level Review

Batch Number:	8134	183	

Review Item	Yes (√)	No (√)	NA (v)
A. Sample Analysis			1
Are the sample yields within acceptance criteria?	,		
2. Is the sample Minimum Detectable Activity < the Contract			
Detection Limit?	V	V- A II	
3. Are the correct isotopes reported?	$-\sqrt{-}$		
B. QC Samples	1		
1. Is the Minimum Detectable Activity for the blank result ≤the			
Contract Detection Limit? 2. Does the blank result meet the Contract criteria?	' /		
	-		
3. Is the blank result < the Contract Detection Limit?			/
4. Is the blank result > the Contract Detection Limit but the			
sample result < the Contract Detection Limit?	/		~
5. Is the LCS recovery within contract acceptance criteria?	1		
6. Is the LCS Minimum Detectable Activity ≤the Contract	7		/
Detection Limit?	V		-/-
7. Do the MS/MSD results and yields meet acceptance criteria?	/		V
Do the duplicate sample results and yields meet acceptance criteria?			,
C. Other			
Are all Non-conformances included and noted?	/	242	V
2. Are all required forms filled out?	V.		
Was the correct methodology used?	1		
Was transcription checked?			
TI II I I I I I I I I I I I I I I I I I		=	
5. Were all calculations checked at a minimum frequency?			

LS-038B, Rev. 10, 9/07

Second Level Review:

Data Review/Verification Checklist RADIOCHEMISTRY, First Level Review

6/16/2008 3:00:09 PM

Lot No., Due Date:

J8E050216,J8E070109,J8E070111,J8E070113,J8E070115; 06/20/2008

Client, Site:

384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8134492; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix:

W05392; WATER

	W.			
	COC Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	Yes	No	N/A
	QC Batch Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	Yeş	No	N/A
2.2	Are the QC appropriate for the analysis included in the batch?	Yeş	No	N/A
2.3	Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	Yeş	No	N/A
2.4	Does the Worksheets include a Tracer Vial label for each sample?	Yeş	No	N/A
		V		
	QC & Samples Is the blank results, yield, and MDA within contract limits?	Yes	No	N/A
3.2	Is the LCS result, yield, and MDA within contract limits?	Yes	No	N/A
3.3	Are the MS/MSD results, yields, and MDA within contract limits?	Yes	No	NA
3.4	Are the duplicate result, yields, and MDAs within contract limits?	Yes	No	N/A
3.5	Are the sample yields and MDAs within contract limits?	Yes	No	N/A
4.0	Raw Data	•		
4.1	Were results calculated in the correct units?	Yes	No	N/A
4.2	Were analysis volumes entered correctly?	Yes	No	N/A
4.3	Were Yields entered correctly?	Yes	No	N/A
4.4	Were spectra reviewed/meet contractual requirements?	Yes	No	N/A
4.5	Were raw counts reviewed for anomalies?	Yes	No	N/A
5 0	Other			
ESCHART .	Are all nonconformances included and noted?	Yes	No	NA
5.2	Are all required forms filled out?	Yes	No	N/A
5.3	Was the correct methodology used?	Yes	No	N/A
5.4	Was transcription checked?	Yes	No	N/A
5.5	Were all calculations checked at a minimum frequency?	Yeş	No	N/A
5.6	Are worksheet entries complete and correct?	Yeş	No	N/A
6.0	Comments on any No response:	V		
	X			

First Level Review

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Date 6-168

TAL Richland

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Page 1



Data Review Checklist RADIOCHEMISTRY Second Level Review

Batch Number: 8134492

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LS-038B, Rev. 10, 9/07

Lot No., Due Date:

J8E070113; 06/20/2008

Client, Site:

384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8134491; RGAMMA Gamma by GER

SD	SDG, Matrix: W05392; WATER			
	1.0 COC1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP nu	mbers, and revisions?	No	N/A
	 2.0 QC Batch 2.1 Do the Summary/Detailed Reports include a calculated result for each sample. 	ple listed on the QC Batch Sheet?	No	N/A
2.2	2.2 Are the QC appropriate for the analysis included in the batch?	Yes	No	N/A
2.3	2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volum	nes, count times, etc?	No	N/A
2.4	2.4 Does the Worksheets include a Tracer Vial label for each sample?	Yes	No	NI
	3.0 QC & Samples 3.1 Is the blank results, yield, and MDA within contract limits?	Yes	No	N/A
3.2	3.2 Is the LCS result, yield, and MDA within contract limits?	Yes	No	N/A
3.3	3.3 Are the MS/MSD results, yields, and MDA within contract limits?	Yes	No	NIA
3.4	3.4 Are the duplicate result, yields, and MDAs within contract limits?	Yes	No	N/A
3.5	3.5 Are the sample yields and MDAs within contract limits?	Yes	No	N/A
	4.0 Raw Data 4.1 Were results calculated in the correct units?	Yey	No	N/A
4.2	4.2 Were analysis volumes entered correctly?	Yes	No	N/A
4.3	1.3 Were Yields entered correctly?	Yes	No	N/A
4.4	1.4 Were spectra reviewed/meet contractual requirements?	Yes	No	N/A
4.5	1.5 Were raw counts reviewed for anomalies?	Yes	No	N/A
	5.0 Other 5.1 Are all nonconformances included and noted?	Yes	No	N/A
5.2	5.2 Are all required forms filled out?	Yes	No	N/A
.3	i.3 Was the correct methodology used?	Yes	No	N/A
.4	i.4 Was transcription checked?	Yes	No	N/A
.5	.5 Were all calculations checked at a minimum frequency?	Yes	No	N/A
6.6	6.6 Are worksheet entries complete and correct?	Yes	No	N/A
		3.1		

First Level Review Och

6.0 Comments on any No response:

Date _6-98

TAL Richland QAS_RADCALCV4.8.33

Page 1



Data Review Checklist RADIOCHEMISTRY Second Level Review

Batch Number:	8134491
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Review Item	Yes (√)	No (√)	NA (v)
A. Sample Analysis			
Are the sample yields within acceptance criteria?	,		
2. Is the sample Minimum Detectable Activity < the Contract	./		
Detection Limit?	V/		
3. Are the correct isotopes reported?	V		
B. QC Samples			
1. Is the Minimum Detectable Activity for the blank result ≤the	/		i.
Contract Detection Limit?	1		
2. Does the blank result meet the Contract criteria?	<i>J</i> ,		
3. Is the blank result < the Contract Detection Limit?	1		
4. Is the blank result > the Contract Detection Limit but the		1 =12=	
sample result < the Contract Detection Limit?			V
5. Is the LCS recovery within contract acceptance criteria?	V.		
6. Is the LCS Minimum Detectable Activity ≤the Contract			
Detection Limit?	V		/
7. Do the MS/MSD results and yields meet acceptance criteria?			
8. Do the duplicate sample results and yields meet acceptance			
criteria?			3
C. Other			/
Are all Non-conformances included and noted?			
2. Are all required forms filled out?			· ·
Was the correct methodology used?	V.		
4. Was transcription checked?	7		
5. Were all calculations checked at a minimum frequency?	7		
6. Were units checked?	J		

Comments on any "No" response:				
	· · · · · · · · · · · · · · · · · · ·			
Second Level Review: _	Eich Ord	Date: 4/9/8		

LS-038B, Rev. 10, 9/07

Lot No., Due Date:

J8E050200; 06/20/2008

Client, Site:

384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8134490; RGAMMA Gamma by GER

SDG, Matrix:

W05392; WATER

DOM: N				
	Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	Yes	No	N/A
2.0 2.1	OC Batch Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	Yes	No	N/A
2.2	Are the QC appropriate for the analysis included in the batch?	Yes	No	N/A
2.3	Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	Yes	No	N/A
2.4	Does the Worksheets include a Tracer Vial label for each sample?	Yes	No	N/A
2 0	QC & Samples			V
	Is the blank results, yield, and MDA within contract limits?	Yes	No	N/A
3.2	Is the LCS result, yield, and MDA within contract limits?	Yes	No	N/A
3.3	Are the MS/MSD results, yields, and MDA within contract limits?	Yes	No	NI
3.4	Are the duplicate result, yields, and MDAs within contract limits?	Yes	No	N/A
3.5	Are the sample yields and MDAs within contract limits?	Yes	No	N/A
	Raw Data Were results calculated in the correct units?	Yeş	No	N/A
1.2	Were analysis volumes entered correctly?	Yeş	No	N/A
4.3	Were Yields entered correctly?	Yes	No	N/g
1.4	Were spectra reviewed/meet contractual requirements?	Yes	No	N/A
1.5	Were raw counts reviewed for anomalies?	Yes	No	N/A
5 0	Other	V		
	Are all nonconformances included and noted?	Yes	No	NA
5.2	Are all required forms filled out?	Yes	No	N/A
5.3	Was the correct methodology used?	Yes	No	N/A
5.4	Was transcription checked?	Yes	No	N/A
5.5	Were all calculations checked at a minimum frequency?	Yes	No	NA
5.6	Are worksheet entries complete and correct?	Yes	No	N/A
6.0	Comments on any No response:	•		
	The sample was re-counted on a different detector for the duplicate.			

First Level Review John North

Date 6-6-8

TAL Richland

Page 1



Data Review Checklist RADIOCHEMISTRY Second Level Review

Batch Number: 314 813 4490

Review Item	Yes (√)	No (√)	NA (V)
A. Sample Analysis			1/
Are the sample yields within acceptance criteria?			V
2. Is the sample Minimum Detectable Activity < the Contract			
Detection Limit?			
3. Are the correct isotopes reported?			
B. QC Samples	V .		
1. Is the Minimum Detectable Activity for the blank result ≤the	/		
Contract Detection Limit?	V/		1
2. Does the blank result meet the Contract criteria?	<i>J</i> ,		
3. Is the blank result < the Contract Detection Limit?			
4. Is the blank result > the Contract Detection Limit but the			
sample result < the Contract Detection Limit?	/		
5. Is the LCS recovery within contract acceptance criteria?	V.		
6. Is the LCS Minimum Detectable Activity ≤the Contract			
Detection Limit?			./
7. Do the MS/MSD results and yields meet acceptance criteria?			V
8. Do the duplicate sample results and yields meet acceptance			
criteria?			
C. Other			
Are all Non-conformances included and noted?	1		
Are all required forms filled out?	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
3. Was the correct methodology used?	V ,		
4. Was transcription checked?			
5. Were all calculations checked at a minimum frequency?	1		
6. Were units checked?	1		

Comments on any "No"	response: Sam	ple was	she san	lon ple
		00		
Second Level Review: _	Eicho	Ono	Date: <u>(0)</u>	1918

LS-038B, Rev. 10, 9/07

Data Review/Verification Checklist RADIOCHEMISTRY, First Level Review

6/9/2008 7:30:49 AM

Lot No., Due Date:

J8E010326,J8E050216,J8E070113; 06/20/2008

Client, Site:

384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8134494; RGAMLEPS Gamma by LEPS

SDG, Matrix:

W05392; WATER

SDG, Matrix.	WUDS92, WATER			
1.0 COC 1.1 Is the ICOC page comp	elete; includes all applicable analysis, dates, SOP numbers, and revisions?	Yes	No	N/A
2.0 QC Batch 2.1 Do the Summary/Detail	ed Reports include a calculated result for each sample listed on the QC Batch Sheet?	Yes	No	N/A
2.2 Are the QC appropriate	for the analysis included in the batch?	Yes	No	N/A
2.3 Is the Analytical Batch \	Norksheet complete; includes as appropriate, volumes, count times, etc?	Yes	No	N/A
2.4 Does the Worksheets in	nclude a Tracer Vial label for each sample?	Yes	No	NA
3.0 QC & Samples 3.1 Is the blank results, yiel	d, and MDA within contract limits?	Yes	No	N/A
3.2 Is the LCS result, yield,	and MDA within contract limits?	Yes	No	N/A
3.3 Are the MS/MSD results	s, yields, and MDA within contract limits?	Yes	No	NA
3.4 Are the duplicate result,	yields, and MDAs within contract limits?	Yes	No	N/A
3.5 Are the sample yields a	nd MDAs within contract limits?	Yes	No	N/A
4.0 Raw Data 4.1 Were results calculated	in the correct units?	Yes	No	N/A
4.2 Were analysis volumes	entered correctly?	Yes	No	N/A
4.3 Were Yields entered co	rrectly?	Yes	No	N/A
4.4 Were spectra reviewed/	meet contractual requirements?	Yes	No	N/A
4.5 Were raw counts review	ved for anomalies?	Yes	No	N/A
5.0 Other 5.1 Are all nonconformance	s included and noted?	Yes	No	NA
5.2 Are all required forms fil	led out?	Yes	No	N/A
5.3 Was the correct method	lology used?	Yes	No	N/A
5.4 Was transcription check	sed?	Yes	No	N/A
5.5 Were all calculations ch	ecked at a minimum frequency?	Yes	No	NA
5.6 Are worksheet entries of	complete and correct?	Yes	No	N/A
6.0 Comments on any No re	esponse:			

First Level Review

Date _ 6-9-8

TAL Richland QAS_RADCALCv4.8.33

Page 1



Data Review Checklist RADIOCHEMISTRY Second Level Review

Batch Number:	8134494
Daten Rumber.	

Are the sample Minimum Detectable Activity < the Contract etection Limit? Are the correct isotopes reported? OC Samples	1	/
Is the sample Minimum Detectable Activity < the Contract etection Limit? Are the correct isotopes reported?		
Are the correct isotopes reported?		
Are the correct isotopes reported?	1//	
OC Samples	$\sqrt{}$	
	,	
Is the Minimum Detectable Activity for the blank result ≤the	/	
ontract Detection Limit?	V/	
Does the blank result meet the Contract criteria?	V	
Is the blank result < the Contract Detection Limit?		
Is the blank result > the Contract Detection Limit but the		
imple result < the Contract Detection Limit?		/
Is the LCS recovery within contract acceptance criteria?	V.	
Is the LCS Minimum Detectable Activity ≤the Contract		
etection Limit?	·/	
Do the MS/MSD results and yields meet acceptance criteria?		V
Do the duplicate sample results and yields meet acceptance		
iteria?	V	
. Other		
Are all Non-conformances included and noted?	/	\checkmark
Are all required forms filled out?	V,	
Was the correct methodology used?	V.	4
Was transcription checked?		
Were all calculations checked at a minimum frequency?		
Were units checked?	1	

Second Level Review:

Jordin

Date: 6/9/8

LS-038B, Rev. 10, 9/07

Lot No., Due Date:

J8E070113; 06/20/2008

Client, Site:

384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8134493; RGAMLEPS Gamma by LEPS

SDG, Matrix:

W05392: WATER

SDG,	Matrix:	W05392; WATER			
1.0 C 1.1 is		ncludes all applicable analysis, dates, SOP numbers, and revisions?	Yes	No	N/A
	C Batch the Summary/Detailed Rep	ports include a calculated result for each sample listed on the QC Batch Sheet?	Yes	No	N/A
2.2 Ar	e the QC appropriate for the	analysis included in the batch?	Yes	No	N/A
2.3 Is	the Analytical Batch Worksh	neet complete; includes as appropriate, volumes, count times, etc?	Yes	No	N/A
2.4 Do	es the Worksheets include	a Tracer Vial label for each sample?	Yes	No	N/A
	C & Samples the blank results, yield, and	MDA within contract limits?	Yes	No	N/A
3.2 ls	the LCS result, yield, and M	DA within contract limits?	Yes	No	N/A
3.3 Ar	e the MS/MSD results, yield	s, and MDA within contract limits?	Yes	No	NA
3.4 Ar	e the duplicate result, yields	, and MDAs within contract limits?	Yes	No	N/A
3.5 Ar	e the sample yields and MD	As within contract limits?	Yes	No	N/A
	aw Data ere results calculated in the	correct units?	Yes	No	N/A
4.2 W	ere analysis volumes entere	ed correctly?	Yes	No	N/A
4.3 W	ere Yields entered correctly	?	Yes	No	N/A
4.4 W	ere spectra reviewed/meet o	contractual requirements?	Yes	No	N/A
4.5 W	ere raw counts reviewed for	anomalies?	Yes	No	N/A
5.0 O f 5.1 Are	ther e all nonconformances inclu	ided and noted?	Yes	No	NA
5.2 Are	e all required forms filled ou	1?	Yes	No	N/A
5.3 Wa	as the correct methodology	used?	Yes	No	N/A
5.4 Wa	as transcription checked?		Yes	No	N/A
5.5 We	ere all calculations checked	at a minimum frequency?	Yes	No	NA
5.6 Are	e worksheet entries comple	te and correct?	Yes	No	N/A
6.0 Co	mments on any No respons	e:	~		

First Level Review

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Date 6-9-8

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Data Review/Verification Checklist RADIOCHEMISTRY, First Level Review

6/9/2008 7:30:49 AM

Lot No., Due Date:

J8E010326,J8E050216,J8E070113; 06/20/2008

Client, Site:

384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8134494; RGAMLEPS Gamma by LEPS

SDG, Matrix:

W05392; WATER

SU	od, matrix. Wubbez, WATER			
1.1	ls the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	Yes	No	N/A
	O QC Batch Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	Yes	No	N/A
2.2	Are the QC appropriate for the analysis included in the batch?	Yes	No	N/A
2.3	is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	Yes	No	N/A
2.4	Does the Worksheets include a Tracer Vial label for each sample?	Yes	No	N/A
	QC & Samples Is the blank results, yield, and MDA within contract limits?	Yes	No	N/A
3.2	Is the LCS result, yield, and MDA within contract limits?	Yes	No	N/A
3.3	Are the MS/MSD results, yields, and MDA within contract limits?	Yes	No	NA
3.4	Are the duplicate result, yields, and MDAs within contract limits?	Yes	No	N/A
3.5	Are the sample yields and MDAs within contract limits?	Yes	No	N/A
	Raw Data Were results calculated in the correct units?	Yes	No	N/A
4.2	Were analysis volumes entered correctly?	Yes	No	N/A
4.3	Were Yields entered correctly?	Yes	No	N/A
4.4	Were spectra reviewed/meet contractual requirements?	Yes	No	N/A
4.5	Were raw counts reviewed for anomalies?	Yes	No	N/A
	Other Are all nonconformances included and noted?	Yes	No	N/A
5.2	Are all required forms filled out?	Yes	No	N/A
5.3	Was the correct methodology used?	Yes	No	N/A
5.4	Was transcription checked?	Yes	No	N/A
5.5	Were all calculations checked at a minimum frequency?	Yes	No	NA
5.6	Are worksheet entries complete and correct?	Yes	No	N/A
6.0	Comments on any No response:	-		

First Level Review ______

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Date __6

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TAL Richland

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Batch Number:	8134494	

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Second Level Review:

Date: 6/9/8

TestAmerica

Data Review/Verification Checklist RADIOCHEMISTRY, First Level Review

6/9/2008 7:44:00 AM

Lot No., Due Date:

J8E070113; 06/20/2008

Client, Site:

384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8134493; RGAMLEPS Gamma by LEPS

SDG, Matrix:

W05392; WATER

	t interest to the state			
	COC Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	Yes	No	N/A
2 0	QC Batch	•		
	Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	Yes	No	N/A
2.2	Are the QC appropriate for the analysis included in the batch?	Yes	No	N/A
2.3	Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	Yes	No	N/A
2.4	Does the Worksheets include a Tracer Vial label for each sample?	Yes	No	N/A
3 0	QC & Samples	•		
	Is the blank results, yield, and MDA within contract limits?	Yes	No	N/A
3.2	Is the LCS result, yield, and MDA within contract limits?	Yes	No	N/A
3.3	Are the MS/MSD results, yields, and MDA within contract limits?	Yes	No	NA
3.4	Are the duplicate result, yields, and MDAs within contract limits?	Yes	No	N/A
3.5	Are the sample yields and MDAs within contract limits?	Yes	No	N/A
4 N	Raw Data	•		
	Were results calculated in the correct units?	Yes	No	N/A
4.2	Were analysis volumes entered correctly?	Yes	No	N/A
4.3	Were Yields entered correctly?	Yes	No	N/A
4.4	Were spectra reviewed/meet contractual requirements?	Yes	No	N/A
4.5	Were raw counts reviewed for anomalies?	Yes	No	N/A
5.0	Other			
	Are all nonconformances included and noted?	Yes	No	NIA
5.2	Are all required forms filled out?	Yes	No	N/A
5.3	Was the correct methodology used?	Yes	No	N/A
5.4	Was transcription checked?	Yes	No	N/A
5.5	Were all calculations checked at a minimum frequency?	Yes	No	N/A
5.6	Are worksheet entries complete and correct?	Yes	No	N/A
6.0	Comments on any No response:	•		

First Level Review

TAL Richland

OAS_RADCALCv4.8.33

Date 6-9-8



Batch Number:	8134493	
Daten Number:	010 1110	

	Yes (√)	No (√)	NA (√)
A. Sample Analysis	-		7
1. Are the sample yields within acceptance criteria?			1
2. Is the sample Minimum Detectable Activity < the Contract			¥.
Detection Limit?	V/		
3. Are the correct isotopes reported?			
B. QC Samples	,		
1. Is the Minimum Detectable Activity for the blank result ≤the			
Contract Detection Limit?	1		
2. Does the blank result meet the Contract criteria?	1		
3. Is the blank result < the Contract Detection Limit?			
4. Is the blank result > the Contract Detection Limit but the			
sample result < the Contract Detection Limit?			
5. Is the LCS recovery within contract acceptance criteria?			
6. Is the LCS Minimum Detectable Activity ≤the Contract			
Detection Limit?			
7. Do the MS/MSD results and yields meet acceptance criteria?	*		V
8. Do the duplicate sample results and yields meet acceptance			
criteria?	\vee		
C. Other 1. Are all Non-conformances included and noted?			
2. Are all required forms filled out?	A		-V
	├ / / /		
3. Was the correct methodology used?			
4. Was transcription checked?	- V		
5. Were all calculations checked at a minimum frequency?	1		
5. Were units checked?			

Data Review/Verification Checklist RADIOCHEMISTRY, First Level Review

6/6/2008 10:27:02 AM

Lot No., Due Date:

J8E050216,J8E070113,J8E070115; 06/20/2008

Client, Site:

384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8155308; RTC99 Tc-99 by LSC

SD	OG, Matrix: W05392; WATER			
	COC Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	Yes	No	N/A
	QC Batch Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	Yes	No	N/A
2.2	Are the QC appropriate for the analysis included in the batch?	Yes	No	N/A
2.3	Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	Yes	No	N/A
2.4	Does the Worksheets include a Tracer Vial label for each sample?	Yes	No	NA
	QC & Samples Is the blank results, yield, and MDA within contract limits?	Yes	No	N/A
3.2	Is the LCS result, yield, and MDA within contract limits?	Yeş	No	N/A
3.3	Are the MS/MSD results, yields, and MDA within contract limits?	Yes	No	N/A
3.4	Are the duplicate result, yields, and MDAs within contract limits?	Yes	No	N/A
	Are the sample yields and MDAs within contract limits?	Yes	No	N/A
	Raw Data Were results calculated in the correct units?	Yes	No	N/A
4.2	Were analysis volumes entered correctly?	Yes	No	N/A
4.3	Were Yields entered correctly?	Yes	No	NA
	Were spectra reviewed/meet contractual requirements?	Yes	No	NA
4.5	Were raw counts reviewed for anomalies?	Yes	No	N/A
5.0 5.1	Other Are all nonconformances included and noted?	Yes	No	N/A
5.2	Are all required forms filled out?	Yes	No	N/A
5.3	Was the correct methodology used?	Yes	No	N/A
	Was transcription checked?	Yes	No	N/A
	Were all calculations checked at a minimum frequency?	Yes	No	NA
	Are worksheet entries complete and correct?	Yes	No	N/A
5.0	Comments on any No response:			

First Level Review

Please see NCM # 10-12495

TAL Richland QAS_RADCALCv4.8.33 TESTAMERICA

Date 6-6-8



Batch Number: 8155308

Review Item	Yes (√)	No (√)	NA (√)
A. Sample Analysis			./
 Are the sample yields within acceptance criteria? 			
2. Is the sample Minimum Detectable Activity < the Contract			
Detection Limit?	\ <u>\</u>		
3. Are the correct isotopes reported?			
B. QC Samples1. Is the Minimum Detectable Activity for the blank result ≤the			
Contract Detection Limit?	\/\ \		
2. Does the blank result meet the Contract criteria?	V ,		
3. Is the blank result < the Contract Detection Limit?		*****	. 5
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?	1		
5. Is the LCS recovery within contract acceptance criteria?	1		5 8jr
6. Is the LCS Minimum Detectable Activity ≤the Contract Detection Limit?	1		
7. Do the MS/MSD results and yields meet acceptance criteria?			
8. Do the duplicate sample results and yields meet acceptance criteria?	1		
C. Other			
Are all Non-conformances included and noted?	1,		
2. Are all required forms filled out?		at near t	
3. Was the correct methodology used?	1/4		
4. Was transcription checked?	1		
5. Were all calculations checked at a minimum frequency?	/		
6. Were units checked?	3		
omments on any "No" response:	un)	
econd Level Review: Luke Ind			

Clouseau Nonconformance Memo



NCM #: 10-12495

NCM Initiated By: John Norton Date Opened: 06/06/2008

Date Closed:

Classification: Anomaly

Status: CHREVIEW

Production Area: Counting

Tests: Tc-99 by LSC

Lot #'s (Sample #'s): J8E050216 (1), J8E070113

(3), J8E070115 (1,2,3),

J8E130000 (500), QC Batches: 8134500.

Nonconformance: Other (describe in detail) Subcategory: Other (explanation required)

Problem Description / Root Cause

Name John Norton Date

Description

06/06/2008

The results from this batch could not be calculated because the TSIE was outside of

acceptable limits.

Corrective Action

Name John Norton Date

Corrective Action

06/06/2008

The scintilation vials were shaken and the batch was re-counted as batch # 8155308

for acceptable results.

Client Notification Summary

Client

Project Manager

Notified

Response How Notified

Note

Response

Response Note

Quality Assurance Verification

Verified By

Due Date

<u>Status</u>
This section not yet completed by QA.

Notes

Approval History

Date Approved

Approved By

Position

Date Printed: 6/6/2008

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		44 27/42		

Data Review/Verification Checklist RADIOCHEMISTRY, First Level Review

6/13/2008 2:35:37 PM

Lot No., Due Date:

J8E050219; 06/20/2008

Client, Site:

384868: PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8134499; RTC99 Tc-99 by LSC

SDG, Matrix:

W05392; WATER

10	COC	
1.0	COC	

1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?

Yes No N/A

2.0 QC Batch
 2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?

No N/A Yeş No N/A

2.2 Are the QC appropriate for the analysis included in the batch?

Yes No N/A

2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?

2.4 Does the Worksheets include a Tracer Vial label for each sample?

Yes No N/A

3.0 QC & Samples

3.1 Is the blank results, yield, and MDA within contract limits?

Yes No N/A

3.2 Is the LCS result, yield, and MDA within contract limits?

Yeş No N/A

3.3 Are the MS/MSD results, yields, and MDA within contract limits?

Yes No N/A

3.4 Are the duplicate result, yields, and MDAs within contract limits?

Yes No N/A

3.5 Are the sample yields and MDAs within contract limits?

Yes No N/A

4.0 Raw Data

4.1 Were results calculated in the correct units?

Yes No N/A

4.2 Were analysis volumes entered correctly?

Yeş No N/A

4.3 Were Yields entered correctly?

Yes No N/A Yes No N/A

4.4 Were spectra reviewed/meet contractual requirements?

Yes No N/A

4.5 Were raw counts reviewed for anomalies?

Yes No N/A

5.0 Other 5.1 Are all nonconformances included and noted?

Yes No N/A

5.2 Are all required forms filled out?

5.4 Was transcription checked?

No N/A Yeş

Yeş

5.3 Was the correct methodology used?

No Yes No N/A

N/A

5.5 Were all calculations checked at a minimum frequency?

No N/A

5.6 Are worksheet entries complete and correct?

6.0 Comments on any No response:

First Level Review

TAL Richland DAS RADCALCV4.8.33 STAMERICA

Date 6-13-8



Review Item	Yes (√)	No (√)	NA (
A. Sample Analysis			
Are the sample yields within acceptance criteria?			V
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	/		
3. Are the correct isotopes reported?	V		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤the Contract Detection Limit?	/,	31.8 ⁴	
2. Does the blank result meet the Contract criteria?	1		
3. Is the blank result < the Contract Detection Limit?	1		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?	1		
5. Is the LCS recovery within contract acceptance criteria?	V.		=
6. Is the LCS Minimum Detectable Activity ≤the Contract Detection Limit?	1		
7. Do the MS/MSD results and yields meet acceptance criteria?	1		
Do the duplicate sample results and yields meet acceptance criteria?	V		
C. Other			/
. Are all Non-conformances included and noted?		500000	/
2. Are all required forms filled out?	V/		
3. Was the correct methodology used?	V,		
4. Was transcription checked?	J.		
5. Were all calculations checked at a minimum frequency?	1		
6. Were units checked?			

Data Review/Verification Checklist RADIOCHEMISTRY, First Level Review

6/6/2008 10:23:11 AM

Lot No., Due Date:

J8E010329,J8E050216,J8E050200,J8E070111,J8E070113,J8E070115; 06/20/2008

Client, Site:

384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8134497; RTRITIUM H-3 by LSC

SDG, Matrix:

W05392; WATER

	COC Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	Yes	No	N/A
	QC Batch Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	Yes	No	N/A
2.2	Are the QC appropriate for the analysis included in the batch?	Yes	No	N/A
2.3	Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	Yes	No	N/A
2.4	Does the Worksheets include a Tracer Vial label for each sample?	Yes	No	NA
	QC & Samples Is the blank results, yield, and MDA within contract limits?	Yes	No	N/A
3.2	Is the LCS result, yield, and MDA within contract limits?	Yes	No	N/A
3.3	Are the MS/MSD results, yields, and MDA within contract limits?	Yes	No	NA
3.4	Are the duplicate result, yields, and MDAs within contract limits?	Yes	No	N/A
3.5	Are the sample yields and MDAs within contract limits?	Yes	No	N/A
4.0 4.1	Raw Data Were results calculated in the correct units?	Yes	No	N/A
4.2	Were analysis volumes entered correctly?	Yes	No	N/A
4.3	Were Yields entered correctly?	Yes	No	NA
4.4	Were spectra reviewed/meet contractual requirements?	Yes	No	NA
4.5	Were raw counts reviewed for anomalies?	Yes	No	N/A
5.0 5.1	The state of the s	Yes	No	NA
5.2	Are all required forms filled out?	Yes	No	N/A
5.3	Was the correct methodology used?	Yes	No	N/A
5.4	Was transcription checked?	Yes	No	N/A
5.5	Were all calculations checked at a minimum frequency?	Yes	No	NA
5.6	Are worksheet entries complete and correct?	Yes	No	N/A
3.0	Comments on any No response:	•		

First Level Review Sohn Horton

Date 6-6-8

TAL Richland QAS_RADCALCV4.8.33



Batch Number: 01997	Batch Number:	8134497	
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Second Level Review: Zuhe Jod

Date: 6/9/8

6/17/2008 1:34:53 PM

Lot No., Due Date:

J8E050216,J8E070111,J8E070115; 06/20/2008

Client, Site:

384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8161360; RC14 C-14 by LSC

SDG, Matrix:

W05392: WATER

3	1	.0	COC	
ı	1	1	le the	ı

Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?

2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?

No N/A

2.0 QC Batch
 2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?

Yes No N/A Yes No N/A

2.2 Are the QC appropriate for the analysis included in the batch?

Yes No N/A

2.4 Does the Worksheets include a Tracer Vial label for each sample?

Yes No N/A

3.0 QC & Samples
3.1 Is the blank results, yield, and MDA within contract limits?

Yeş No N/A

3.2 Is the LCS result, yield, and MDA within contract limits?

Yes No N/A

3.3 Are the MS/MSD results, yields, and MDA within contract limits?

Yes No N/A

3.4 Are the duplicate result, yields, and MDAs within contract limits?

Yes No N/A

3.5 Are the sample yields and MDAs within contract limits?

Yes No N/A

4.0 Raw Data

4.1 Were results calculated in the correct units?

Yes No N/A

4.2 Were analysis volumes entered correctly?

Yes No N/A

4.3 Were Yields entered correctly?

Yes No N/A Yes No N/A

4.4 Were spectra reviewed/meet contractual requirements?

Yes No N/A

4.5 Were raw counts reviewed for anomalies?

Yes No N/A

5.0 Other 5.1 Are all nonconformances included and noted?

Yeş No N/A

5.2 Are all required forms filled out?

5.3 Was the correct methodology used?

No N/A

5.4 Was transcription checked?

Yeş No N/A

Yes No N/A

5.6 Are worksheet entries complete and correct?

5.5 Were all calculations checked at a minimum frequency?

No N/A

6.0 Comments on any No response:

Please see NCM # 10-12542

First Level Review

Date

6-17-8

TAL Richland QAS RADCALCV4.8.33



Batch Number: _	8161360

Review Item	Yes (√)	No (√)	NA (v)
A. Sample Analysis			1
Are the sample yields within acceptance criteria?	/		V
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	1	÷	
3. Are the correct isotopes reported?			
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤the Contract Detection Limit?	1/		
2. Does the blank result meet the Contract criteria?	<i>V</i> ,		
3. Is the blank result < the Contract Detection Limit?			,
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			
5. Is the LCS recovery within contract acceptance criteria?	1/1		
6. Is the LCS Minimum Detectable Activity ≤the Contract Detection Limit?			/
7. Do the MS/MSD results and yields meet acceptance criteria?			/
8. Do the duplicate sample results and yields meet acceptance criteria?			
C. Other 1. Are all Non-conformances included and noted?			
2. Are all required forms filled out?	-/-	- 9	
3. Was the correct methodology used?	// 		
4. Was transcription checked?	<u> </u>		
5. Were all calculations checked at a minimum frequency?	1	Bushes	
6. Were units checked?	1	~	VA.100

Comments on any "No"	response:	Seer	Jus-	
Second Level Review: _	Eirhe	Dord	Date:	4718

Clouseau Nonconformance Memo



NCM #: 10-12542

NCM Initiated By: John Norton Date Opened: 06/17/2008

Date Closed:

Classification: Anomaly

Status: GLREVIEW

Production Area: Environmental - Prep

Tests: C-14 by LSC

Lot #'s (Sample #'s): J8E050216 (1), J8E070111

(1), J8E070115 (1,2,3),

J8E130000 (481),

QC Batches: 8134481,

Nonconformance: Dups not within acceptance limits Subcategory: Other (explanation required)

Problem Description / Root Cause

Name John Norton Date

Description

06/17/2008 In batch # 134481 the sample and duplicate did not show sufficient agreement.

Corrective Action

Name John Norton <u>Date</u>

Corrective Action

06/17/2008 When re-counting did not correct the problem the samples were re-analyzed in batch

#8161360.

Client Notification Summary

Client

Project Manager

Notified

Response How Notified

Note

Response

Response Note

Quality Assurance Verification

Verified By

Due Date

Status

Notes

This section not yet completed by QA.

Approval History

Date Approved

Approved By

Position

Date Printed: 6/17/2008

Page 1 of 1

6/20/2008 10:11:19 AM

Lot No., Due Date:

J8E050219,J8E070113; 06/20/2008

Client, Site:

384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8134496; RUNAT UNat by KPA

SDG, Matrix:

W05392; WATER

1.0 COC

1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?

No N/A

2.0 QC Batch
 2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?

No N/A

2.2 Are the QC appropriate for the analysis included in the batch?

Yeş No N/A

2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?

Yeş No N/A

2.4 Does the Worksheets include a Tracer Vial label for each sample?

Yes No N/A

3.0 QC & Samples

3.1 Is the blank results, yield, and MDA within contract limits?

Yes No N/A

3.2 Is the LCS result, yield, and MDA within contract limits?

Yeş No N/A

3.3 Are the MS/MSD results, yields, and MDA within contract limits?

Yeş No N/A

3.4 Are the duplicate result, yields, and MDAs within contract limits?

Yes No N/A

3.5 Are the sample yields and MDAs within contract limits?

No N/A

4.0 Raw Data

4.1 Were results calculated in the correct units?

No N/A

4.2 Were analysis volumes entered correctly?

No N/A

4.3 Were Yields entered correctly?

Yes No N/A

4.4 Were spectra reviewed/meet contractual requirements?

No N/A No N/A

4.5 Were raw counts reviewed for anomalies?

5.1 Are all nonconformances included and noted?

Yes No N/A

5.2 Are all required forms filled out?

5.4 Was transcription checked?

No N/A

5.3 Was the correct methodology used?

No N/A

No N/A

5.5 Were all calculations checked at a minimum frequency?

Yes No N/A

5.6 Are worksheet entries complete and correct?

No N/A

6.0 Comments on any No response:

First Level Review

Date 6 20 8

TAL Richland QAS_RADCALCV4.8653 TESTAMERICA



Batch Number: 8134490

	Yes (√)	No (√)	NA (
A. Sample Analysis		7	
Are the sample yields within acceptance criteria?			~
2. Is the sample Minimum Detectable Activity < the Contract			
Detection Limit?	V/		
3. Are the correct isotopes reported?			
B. QC Samples			
1. Is the Minimum Detectable Activity for the blank result ≤he	/		
Contract Detection Limit?	V/		
2. Does the blank result meet the Contract criteria?			
3. Is the blank result < the Contract Detection Limit?			
4. Is the blank result > the Contract Detection Limit but the			/
sample result < the Contract Detection Limit?			_/_
5. Is the LCS recovery within contract acceptance criteria?			
 Is the LCS Minimum Detectable Activity ≤the Contract 	7		
Detection Limit?	1/		
7. Do the MS/MSD results and yields meet acceptance criteria?	/.		
B. Do the duplicate sample results and yields meet acceptance criteria?	1		
C. Other			
Other Are all Non-conformances included and noted?			
2. Are all required forms filled out?			
3. Was the correct methodology used?	- 		
	V .		
4. Was transcription checked?	4		
5. Were all calculations checked at a minimum frequency?	4		
6. Were units checked?			



Richland Laboratory Data Review Check List **Hexavalent Chromium**

Batch Number(s): 8126529					
Lab Sample Numbers or					
Method/Test/Parameter: Cr+6 in Water / RICH-WC-5003 6/20/08					
Review Item	Yes (✓)	No (✓)	N/A (✓)	2 nd Level Review (✓)	
A. Initial Calibration	1				
Performed at required frequency with required number of levels?	7				
2. Correlation coefficient within QC limits?	1			-	
Initial calibration verification (ICV) analyzed immediately after calibration and results within QC limits?	1			-	
4. Initial calibration blank (ICB) analyzed immediately after ICV and concentrations of all parameters ≤ reporting limit?	1			_	
B. Continuing Calibration	1				
CCV analyzed at required frequency and all parameters within QC limits?				/	
2. CCB analyzed at required frequency and all results ≤ reporting limit?	V			_	
C. Sample Analysis 1. Were any samples with concentrations above the linear range for any parameter diluted and reanalyzed?	~			~	
2. Were all sample holding times met?	1			-	
D. QC Samples 1. All results for the preparation blank below limits?	~			_	
2. MS or MS/MSD recoveries within QC limits and %RPD (for MSD) acceptable?	✓			~	
3. LCS percent recovery within QC limits and %RPD (for LCSD) acceptable?	1			/	
4. Analytical spikes within QC limits where applicable?			1	_	
5. ICP only: One serial dilution performed per SDG?			~	1	
6. ICP only: CRDL standard (CRI or CRA) analyzed at required frequency?			1		
7. ICP only: Interference check samples (ICSA, ICSAB) and HICAL analyzed at the required frequencies and within QC limits?			1	/	

Review Item	Yes (✓)	No (✓)	N/A (✓)	2 nd Level Review (✓)
E. Other	· ·			
1 Are all nonconformances included and noted?				
2. Is the correct date and time of analysis shown?	√			~
3. Did the analyst sign and date the front page of the analytical run?	✓			/
Correct methodology used?	✓			/
5. Transcriptions checked?	✓			
6. Calculations checked at minimum frequency?	1			/
7. Units checked?	1			

'omments on any "No" response:	
Λ.	
Analyst: Junt	Date:5/5/08
Second-Level Review:	Date: QIAD 7

108-023-134 Total Activity Exemption: Yes No Preservative of ~<-≰-2× FAX Page Temp. C.O.C. # MSIN Purchase Order/Charge Code ~ # 8 # 3 C 4 Bill of Lading/Air Bill No. None None Date/Time / Se 80-1-5 Offsite Property No. CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST Telephone No. 509-373-5869 Date/Time Date/Time Ice Chest No. SPECIAL INSTRUCTIONS Hold Time 200 Area Generator Knowledge Information Form applies. KNELG 06 16 03 Sample Analysis Sign Disposed By Jac 1129LL_SEP_LEPS_GS_LL: 1-129 (1) Priority: 45 Days W05393 Activity Scan POSSIBLE SAMPLE HAZARDS/REMARKS ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993) Received By Date/Time / Recopyel By Received By Method of Shipment Govt. Vehicle Contact/Requester Steve Trent Sampling Origin Hanford Site Disposal Method (e.g., Return to customer, per lab procedure, used in process) No/Type Container 20-1-5 2x4000-mL G/P 18 F 070 336 1x20-mL P DateTime Date/Time 0800 Time geld-h Date Project Title 27P1 FEBRUARY 2008 Shinned To II ah) TestAmerica Incornorated Richland ≥ 3 FLUOR HANFORD Lab ID FINAL SAMPLE DISPOSITION Sample No. Relinquished By Relinquished By Relinquished By Relinquished By FLUO SAFNA. B1T3L4 B1T3L4

Drum Solid Drum Lieni Tissue Wine Lienid Veoetation Other 108-023-135 Total Activity Exemption: Yes V Preservative of 85+≥=>× Matrix * FAX Page Temp. C.O.C. # MSIN Purchase Order/Charge Code ~ # 8 # B C 4 Bill of Lading/Air Bill No. None None Date/Time /3/0 80-1-5 Offsite Property No. CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST 509-373-5869 Date/Time Date/Time Telephone No. 1605 Ice Chest No. SPECIAL INSTRUCTIONS Hold Time 200 Area Generator Knowledge Information Form applies mean B Sample Analysis Due Sign ノギハ 1129LL_SEP_LEPS_GS_LL: 1-129 (1) Priority: 45 Days 1205393 Activity Scan CERCI A POSSIBLE SAMPLE HAZARDS/REMARKS POSSIBLE SAMPLE SAMPLE SAMPLE HAZARDS/REMARKS POSSIBLE SAMPLE te/Time/30 Received By teceived By Received By Method of Shipment Govt. Vehicle Contact/Requester Sleve Trent Sampling Origin Hanford Site Disposal Method (e.g., Return to customer, per lab procedure, used in process) 2-1-03 No/Type Container 86010326 2x4000-mL G/P Date/Time 1x20-mL P Date/Time Date/Time 0800 Time 7 fork-h Date 8 TestAmerica Incomposated Richland 3 Lab ID 2ZPI, FEBRUARY 2008 FINAL SAMPLE DISPOSITION hinned To (Lah) Sample No. Relinquished By Relinquished By Relinquished By Relinquished By Project Title B1T3L5 B1T3L5



Sample Check-in List

Date	/Time Received: 05.01.08 131	GM Screen Result
Clien	t: P&W SDG#: WE	05392 NA[] SAF#: 108-023 NA[]
Wor	k Order Number: T8F010334	Chain of Custody #
Ship	ping Container ID:	Air Bill #
1.	Custody Seals on shipping container intact?	NA[] Yes[] No[]
2.	Custody Seals dated and signed?	NA[] Yes[/] No[]
3.	Chain of Custody record present?	NA [] Yes [] No []
4.	Cooler Temperature:NA []	5. Vermiculite/packing materials is NA 🕢 Wet [] Dry []
6.	Number of samples in shipping container:	<u>.</u>
7.	Sample holding times exceeded?	NA [/] Yes [] No []
8	Samples have: Tape Custody Seals	Hazard Lables Appropriate Sample Lables
9.	Samples are: In Good Condition Broken	Leaking Have Air Bubbles (Only for samples requiring no head space.)
10.	Sample pH taken? NA [] pH<2 [] pH>2 []	pH>9 [] Amount HNO3 Added Cru
11.	Sample Location, Sample Collector Listed? * *For documentation only. No corrective action nee-	ded.
12.	Were any anomalies identified in sample receipt?	Yes[] NoV
13.	Description of anomalies (include sample numbers)	
Sam	ple Custodian:	Date: 5/08
	Client Sample ID Analysis Requested	Condition Comments/Action
Clien	at Informed on by	Person Contacted
[]	No action necessary; process as is.	
Proie	ct Manager	Date

Cole Gal Spens		11.6.5392 De 11	C& Page	00
ACollege, contract	786010339	800000000000000000000000000000000000000		ge I of 1
	Contact/R	E	son 373 soco	FAX
SAF No. 108-025	Sampling Origin Hanford Site		Purchase Order/Charge Code	
Project Title 100HR3IAM(1/2), MARCH 2008		S1-925-N	lee Chest Ng. 1 - (1647) Temp.	
Shinned To (1 sh) TestAmerica Incommented Richland	Method of		Bill of Lading/Air Bill No.	
Protocol CERCIA		Priority: 45 Days	Offsite Property No.	
POSSIBLE SAMPLE HAZARDS/REMARKS		Special Instructions Hold Time Site-Wide Generator Knowledge Information Form applies.	ne Total Activity Exemption: Yes 🗹	nption: Yes 🗹 No
e No. Lab ID * Date	e No/Type Container	Sample Analysis		Preservative
81VC18 W 64-08	7 1x1000-mL P	906.0_H3_LSC: Tritium (1)	None	
W		9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2	
B1VC18 W 🕹	1x20-mL P	Activity Scan	None	
		KMEDV		
of Haring	£ 5	Streeting Sign MAY	Date/Time /ZST	Matrix *
Relinquished By	Date/Time	Received By	Date/Time SR - Sediment SO - Solid ST - Shidoe	1 # E E - 5 .
Relinquished By	Date/Time	Received By		
Relinquished By	Date/Time	Received By	Date/Time	
FINAL SAMPLE Disposal Method (e.g., Return to customer, per lab procedure, used in process)	per lab procedure, used in proc	cess) Disposed By	Date	Date/Time

				TXENINE DESCRIPTION OF TAXABLE	(013.11	77.7	,	
C. D. J. Spelle		-		100010001	000 3382 Um	20 1/ 02	Pag	-
Collector				Contact/			MSIN FAX	
OSAF No.	14			Sampling Origin Hanford Site		Purchase Order/Charge Code		
Project Title 100HR31AM(1/2), MARCH 2008	ARCH 2008			*	S1-225-N	ler Chest Ng 71 - 6	(COZ) Temp.	
Shinned To (Lah) TestAmerica Incornorated Richland	rated Richland			Method o	of Shipment Vehicle	6		
Protocol CFRCI A					Priority: 45 Days	Offsite Property No.		
POSSIBLE SAMPLE HAZARDS/REMARKS	HAZARDS/RI	EMARKS			STRUCTIONS trator Knowledge Informat		Total Activity Exemption: Yes 🗷	% S
e No.	Lab ID *	Date	Time	No/Type Container	Sample Analysis		Preservative	٩
B1VC19	×	80-1-5	1038	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None		
B1VC19	W	_		1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2	8	
B1VC19	×	>	>	1x20-mL P	Activity Scan	None		
					KMEĐO	0		
Relinquished By	120	Sign	MAY	Date/Time /3.	Print O Sign	Date/Time (355)	Matrix *	
Relinquished By	1	N S		Date/Time	Regined By Respired By	Date/Time S.F. S.D. S.D. S.D. S.D. S.D. S.D. S.D.	= Soil DS = Sediment DI. = Solid T = Sludee WI	Drum Solid Drum Limii Tissue Wine
Relinquished By				Date/Firne	Received By	Date/Time N		Limid Veretation
Relinquished By		t i		Date/Time	Received By	Date/Time		
FINAL SAMPLE	Disposal Method	(e.g., Return to	customer, per l	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	rocess) Disposed By		Date/Time	

Drum Solid Drum Liqui Tissue Wine Liquid Veretation Other Total Activity Exemption: Yes 🗹 No 108-025-218 Preservative Jo ç ⊑ + <u>≥</u> - > × Matrix * FAX Date/Time Page C.O.C. # Temb. MSIN HNO3 to pH <2 Ice Chest No. SALCO Purchase Order/Charge Code ~ # G # 3 C < Bill of Lading/Air Bill No. None MAY Date/Time 2555 None Offsite Property No. CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST Telephone No. 509-373-5869 Date/Time Date/Time Date/Time SPECIAL INSTRUCTIONS Hold Time Site-Wide Generator Knowledge Information Form applies. Lue 06 16 03 KMESS Sample Analysis Sign Disposed By 9310_ALPHABETA_GPC: Alpha + Beta (2) Priority: 45 Days NO 5393 906.0_H3_LSC: Tritium (1) S1-925-N-1NH Activity Scan Received By Received By Received By Method of Shipment Govt. Vehicle Contact/Requester Sampling Origin Hanford Site Disposal Method (e.g., Return to customer, per lab procedure, used in process) Steve Trent Date/Time/355 No/Type Container 0 1 2008 78E610339 1x1000-mL P 1x1000-mL P Date/Time 1x20-mL P Date/Time MAY Time 3 8015 Sign Date POSSIBLE SAMPLE HAZARDS/REMARKS TestAmerica Incomparated Richland 3 ≥ ≥ rolect Title 100HR3IAM(1/2), MARCH 2008 FLUOR HANFORD Lab ID FLUOR HANE
SEE COINCE TO SPECIFICATION OF THE STATE OF TH FINAL SAMPLE DISPOSITION inned To (Lah) Relinquished By D. J. Sparks Sample No. Relinquished By Relinquished By Relinquished By CERCLA B1VC21 B1VC21 B1VC21 rotocol

H FLUOR HANFORD	NFORD			CHAIN OF	OF CUSTODY/SAMPLE ANALYSIS REQUEST		108-025-234
			<i>'</i> ,)	785010339	29 W15397 Due of	SC 11 CS	Page 1 of 1
CollectoSparies				Contact/R	Requester	Telephone No. MSIN	FAX
SAF No. 108-025				Sampling Origin Hanford Site	Origin d Site	Purchase Order/Charge Code	
Project Title 100HR31AM(1/2), MARCH 2008	MARCH 200			#	S1-925-N-JNH	Ice Chest Ng ML - 607	Temp.
Shinned To (Lab) TestAmerica Incorporated Richland	morated Richl	par		Method o	Method of Shipment Govt Vehicle	Bill of Lading/Air Bill No.	
Protocol CERCLA					Priority: 45 Days	Offsite Property No.	
POSSIBLE SAMPLE HAZARDS/REMARKS	E HAZARDS	REMARKS			STRUCTIONS rator Knowledge Informat		Total Activity Exemption: Yes 🗹 No 📙
Sample No.	Cli de l	* Date	Time	No/Type Container	Sample Analysis		Preservative
B1VC29		80-1-5 M	1223	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None	
B1VC29		W		1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2	
B1VC29		A M	→	1x20-mL P	Activity Scan	None	
					0/1	100 637	
Relinquished By D. J. Sparks	Programme of the	1 3 A		MAY 0 1 2008	Print Sign	MAY 0 1 2000	1
Relinquished By	- /	9	35	Date/Time	ecg/ved By		ment d ve − Di.
Relinquished By				Date/Time	Received By	Date/Time O = A = T	: I
Relinquished By				Date/Fine	Received By	Date/Time	
FINAL SAMPLE	\vdash	hod (e.g., Return	n to customer, per	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Cess) Disposed By		Date/Time



Sample Check-in List

Dat	e/Time Received: _5	108 1355	GM Screen	Result O. 1K
Clie	nt: Paw	SDG #: W053	92 NA[] SA	F#: IO8-025 NAIL
Wor	k Order Number:	85-010339	Chain of Custody i	108-025-215-216,-218,-25
I,	Custody Seals on shipping		NA[] Yes	
2.	Custody Seals dated and si	gned?	NA[] Yes	No[]
3.	Chain of Custody record pr	resent?	NA[] Yes[No[]
4.	Cooler Temperature:	NA [/] 5. V	ermiculite/packing m	aterials is NA [Wet [] Dry []
6.	Number of samples in ship	ping container:		_ • • • • • • •
7.	Sample holding times exce	eded?	NA [Yes []	No[]
8	Samples have: Tape Custody Seals			rd Lables opriate Sample Lables
9.	Samples are: In Good Conditi Broken		(Only for sample	ng Air Bubbles s requiring no head space.)
10.	Sample pH taken? NA []	pH<2 // pH>2 // pH	d>9[] Amount 1	HNO3 Added
. 11.	Sample Location, Sample C *For documentation only. 1	Collector Listed? * No corrective action needed.		
12.	Were any anomalies identif	ied in sample receipt?	Yes[]	NoLY
13.	Description of anomalies (in	nclude sample numbers):		
Samp	ole Custodian:	PH		Date: 5 / 08
F	Client Sample ID	Analysis Requested	Condition	Comments/Action
F				
Client	Informed on	by	Person Cont	acted
[]N	o action necessary; process a	s is.		
Proiec	t Manager		Data	

			CHAIN OF	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	ALYSIS REQUEST		108-032-79
			TRECSOSCO	2300 W05392	Due 06 19.08	80.	Page 1 of 1
Collectors AMMKER	2		Contact/Regu		Ę,	MSIN	FAX
SAF.No. 108-032			Sampling Origin	Origin 1 Sire	Purchase Order/Charge Code	/Charge Code	
Project Title 100KR4IAM(1/2), APRIL 2008			H	St 925-N-JUH	Ice Chest 2001 - LOD		Temb.
Shinned To (Lab) [TestAmerica Incorporated Richland	land		Method of Govt. Ve	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.	Nir Bill No.	
Protocol CERCLA		Ü		Priority: 45 Days	Offsite Property No.	v No.	
POSSIBLE SAMPLE HAZARDS/REMARKS ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order \$400.5 (1990/1993)	S/REMARKS al concentrations the (1993)	hat are not regulal	ted for transportation per 4		SPECIAL INSTRUCTIONS Hold Time 100 Area Generator Knowledge Information Form applies.	Total Activit	Total Activity Exemption: Yes 🔟 No
Sample No. Lab ID	* Date	Time	No/Type Container		Sample Analysis		Preservative
B1TW29	8052 W	2 1015	1x20-mL P	Activity Scan		None	
B1TW29	M		1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	(2)	HNO3 to pH <2	
B1TW29	M		1x500-mL aG	7196_CR6: Hexavalent Chromium (1)		Cool-4C	
B1TW29	M		1x1000-mL P	906.0 H3_LSC: Tritium (1)		None	
B1TW29	×	>	3x1000-mL G/P	GAMMA_GS: List-1 (10)		HNO3 to pH <2	
			VC See		KMKW3		
						5	
Delinentished D.			1,11		1	2	
S.4 AMAKEP	Most House	9	MAY 0 5 2008		NAY 0"5"2008	ا « ا	Matrix *
for possessivity			Date/Ime	Received By	Date/Lime	S 12 3	Solid T rissue
Relinquished By			Date/Time	Received By	Date/Time		:>×
Relinquished By			Date/Time	Received By	Date/Time		
FINAL SAMPLE Disposal M	ethod (e.g., Return	to customer, per	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	red By		Date/Time



Sample Check-in List

	Time Received:05/	05/08 154	15	GM Screen Res	sult 67
	nt: Pow	SDG #: W05.	392	NA[SAF #:	IO8-032 NAII
Wor	k Order Number:	(E050)200			-08-032-79
Ship	ping Container ID:		Air E	BiN #	
1.	Custody Seals on shipping	container intact?	î	NA[] Yes[/] No	[]
2	Custody Seals dated and sig	ined?		NA[] Yes [] No	
3	Chain of Custody record pr	esent?	11	NA[] Yes [] No	1 1
4	Cooler Temperature:	NA // J	5. Vermio	ulite/packing materi	als is NA [Wet [] Dry []
6	Number of samples in shipp	oing container:			
7.	Sample holding times excee	eded?	1) (2)	NA[Yes[] No	[]
к	Samples have: Tape Custody Seals		3	Hazard L.	ables ate Sample Lables
y	Samples are: In Good Conditi Broken	on		Leaking Have Air Only for samples re-	Bubbles quiring no head space.)
10,	Sample pH taken? NA []	pH<2 [/ pH>2/]	pH>9 [] Amount HNO	O3 Added NHL
11.	Sample Location, Sample C *For documentation only. 1		ed.		
12.	Were any anomalies identifi	ied in sample receipt?		Yes No	N
13.	Description of anomalies (in	nclude sample numbers):	-	Water to the same of the same	·
Sam	ple Custodian:	hm. Uh		D	ate: 05/05/08
	Client Sample ID	Analysis Requested		Condition	Comments/Action
Clien	Informed on	by	E Valifación	Person Contacte	d
	o action necessary; process a				
Proje	rt Manager			Date	

FLUOR HANFORD	NFORD				CHAIN OF	CUSTODY/SAMPLE ANALYSIS REQUEST	ANALYSIS REC	QUEST	S08-004-47
T'AN				7	T8E05031	16 W05392	Due 06 19 08	80.	Page 1 of 0
College HA	4Am#/(ca	4			Contact/Regu	Requester	Telen	Telephone No. MSIN	SIN FAX
SAF No.					Sampling Origin Hanford Site	Origin Site	Purc	Purchase Order/Charge Code	
Project Title SURV. APRIL 2008	800				,	51-905-M-JAH	Jee C	ice Chest Sym LOD	Temp.
Shinned To (Lab) TestAmerica Incornorated Richland	ornorated Ric	pland			Method of S	of Shipment	Bill	Bill of Lading/Air Bill No.	
Protocol						Priority: 45 Days	Offis	Offsite Property No.	
POSSIBLE SAMPLE HAZARDS/REMARKS ** ** Contains Radioactive Material at concentrations releasable per DOE Order 5400.5 (1990/1993)	LE HAZARI lionative Materi der 5400.5 (199	DS/RE [al at con 10/1993)	MARKS centrations that	t are not regula	** POSSIBLE SAMPLE HAZARDS/REMARKS ** ** Contains Radionctive Material at concentrations that are not regulated for transportation per 49 cleasable per DOE Order 5400.5 (1990/1993)	SPECIAL INSTRUCTIONS Site-Wide Generator Knowledge I	PECIAL INSTRUCTIONS Hold Time Site-Wide Generator Knowledge Information Form applies.		Total Activity Exemption: Yes 🗹 No 🗓
Sample No.	Cab ID	٠	Date	Time	No/Type Container		Sample Analysis		Preservative
B1TWH4		8	80-55	(33	1x20-mL P	Activity Scan		None	
B1TWH4	E 0	8	j	ح	2x1000-mL G/P	C14_LSC: C-14 (1)		None	
B1TWH4		8			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)		HCI to pH <2	
B1TWH4		8			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	Beta (2)	HNO3 to pH <2	<2
B1TWH4		3	>	Z	1x1000-mL P	906.0 H3 LSC: Tritium (1)		None	

KMKAR

FLUOR HANFORD	ORD				CHAIN OF C	CUSTODY	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	ALYSIS	REQUEST		S08-004-1145
TAI					J8E080216		605392	2	Due CL 19 08		Page 1 of 0
ACOllector S. HAMAKER	MMA	1/ek			Contact/Requester				Telephone No.	MSIN	FAX
SAF No.	O				Sampling Origin Hanford Site	hrigin			Purchase Order/Charge Code	Charge Code	
Project Title SURV. APRII. 2008					HW	Stars-N-JNH	75		lee Chest Ngm C-60		Temp.
Shinned To (Lah)					Method of S	od of Shipment			Bill of Lading/Air Bill No.	ir Bill No.	
Protocol STIRV	rated Kic	pusid			Ciovi, Vehicle		Priority: 45 Days		Offsite Property No.	No.	
POSSIBLE SAMPLE HAZARDS/REMARKS ** ** Contains Radioactive Material at concentrations that are not regulated for transportation relensable per DOE Order \$400.5 (1990/1993)	HAZARD tive:Materia 400.5 (1990	S/REN d at conc	AARKS centrations that a	are not regula	ted for transportation per 49	per 49 CFR but are not	SPECIAL INSTRUCTIONS Hold Time Site-Wide Generator Knowledge Information Form applies.	IONS I	Hold Time tion Form applies.	Total Activity F	Total Activity Exemption: Yes 🗹 No
Sample No.	Lab ID		Date	Time	No/Type Container		San	Sample Analysis			Preservative
B1VC42		3	8055	324	1x20-mL P	Activity Scan				None	
B1VC42		3	_	_	1x1000-mL P	9310 ALPHABE	9310_ALPHABETA_GPC: Alpha + Beta (2)	(2)		HNO3 to pH <2	
B1VC42		3	1	>	1x1000-mL P	906.0_H3_LSC: Tritlium (1)	: Tritium (1)			None	

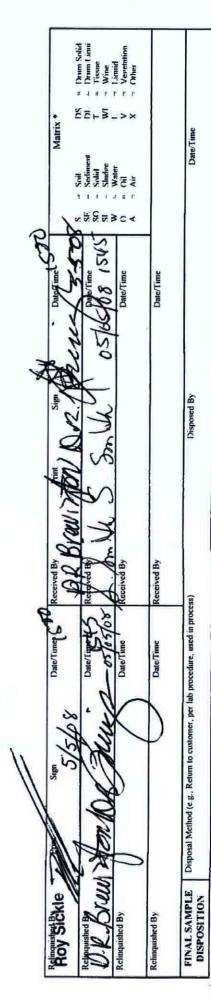
KmKzl

Refinquished By Print Sign	Date/Time /	Received By Print Sign	Date/Time	W	Matrix *
Hamaken I S 2008	800Z C (\$	MAY 0 5 2000	F	r
Relinquished By	Date/Time	Recented By Ling Lin S. Smith	05/05/108	S. Sediment SO Solid St. Shide	DI Drum Lioni T - Tissue WI - Wine
Relinquished By	Date/Time	Received By	'Date/Time	1 1	ı ı r
Relinquished By	Date/Time	Received By	Date/Time	27	
FINAL SAMPLE Disposal Method (e.g., Return to customer, per lab procedure, used in process) DISPOSITION	ocedure, used in proc	Disposed By		Date/Time	me

FLUOR HANFORD	ORD			CHAIN 0	NOFC	JSTODY	F CUSTODY/SAMPLE ANALYSIS REQUEST	YSIS REOUF	LS	C.O.C.	S08-004-815	-815
-TA				18	186050311.	316	4115392	80.61.010 010	80.6	Pa	Page 1 of	_
Collect Roy Sickle					Contact/Requester	ster	3	Telephone No.		MSIN	VX.	
SAF No.	8				Sampling Origin	ii		Purchase Order	Purchase Order/Charge Code	je.		
Project Title SURV, APRIL 2008						4 V.F.	E1 -925.1	Ice Chest No. SM	1	600 Temp.		
Shinned To (Lah) TestAmerica Incomorated Richland	fred Richland				Method of Shipment	oment	1	Bill of Ladi	2			
Protocol SURV							Priority: 45 Days	Offsite Property No.	perty No.			
POSSIBLE SAMPLE HAZARDS/REMARKS •• Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 3400.5 (1990/1993)	AZARDS/RE R Material at cot 10.5 (1990/1993)	CMARKS neentrations that	if are not regular	ted for transpor	rtation per 49 CF			Hold Time Information Form applies.	Total	Activity Exer	Total Activity Exemption: Yes 🗾 No	ŝ
c No.	Lab ID •	Date	Time	No/Type Container	Container		Sample Analysis	Analysis			Preservative	
B1TW32	8	2:508	1 (10)	1x20-mL P		Activity Scan			None			
B1TWJ2	>			1x1000-mL	_	310_ALPHABE	9310_ALPHABETA_GPC: Alpha + Beta (2)	197	HNO3 to pH <2	H<2		
B1TWJ2	>			2x4000-mL	G/P	129LL_SEP_LE	1129LL_SEP_LEPS_GS_LL: 1-129 (1)		None			
B1TWJ2	>	*	_	1x1000-mL	<u>a</u>	906.0_H3_LSC: Tritium (1)	Tritium (1)		None			
								KmK25			•	
												3
						2						
												: 1
			\									N I
D. Charles Lander	2				OF			4	Cles			
HOY SICKIE		Sult.	80/5/5	(12)	ame	OK BY	wilte OR	Date/Time	3	1	Matrix *	Drinn Solid
D.R. Diewill	End)	2 Ben	de	Symple Date/Time S	TimpS 45 Rec	July S	する。い	Date/Time	OF 1545 SO	111	::: E⊢≨.	Drum Liani Tissue Wine
Relinquished By		2	0	Date/Time		Received By		Date/Time		1 1 1	:>×	Vepetation
Relinquished By				Date/Time		Received By		Date/Time	lime	ļ		
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in	(e.g., Return to	customer, per	lab procedure.	used in process)		Disposed By			Dat	Date/Time	
,												

								C.O.C.#
FLUOR HANFORD	ORD		1/2		CHAIN OF	OF CUSTODY/SAMPLE ANALYSIS REQUEST	S REQUEST	S08-004-275
I'AN					J8E050316	W05393	Duc 06 1908	Page 1 of Q
HCollector Roy SICKIO	Kle				Contact/Requester Steve Trent		Telephone No. MSIN	N FAX
SOS-004		4			Sampling Origin Hanford Site	Origin	Purchase Order/Charge Code	
					1	14 r. F. N 506- 13	Ice Chest No. SML - 660 Temp.	C Temu.
Shinned To (Lah)ITestAmerica Incommented Richland	rated Ric	hland			Method of Shipment Govt. Vehicle	Shioment	Bill of Lading/Air Bill No.	
Protocol SURV						Priority: 45 Days	Offsite Property No.	
POSSIBLE SAMPLE HAZARDS/REMARKS ** Tontains Radioactive Material at concentrations releasable per DOE Order \$400.5 (1990/1993)	HAZARE tive Materia 1400.5 (1990	55/RE1 of at conc 5/1993)	MARKS centrations that	are not regula	SIBLE SAMPLE HAZARDS/REMARKS ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not sable per DOE Order 5400.5 (1990/1993)	SPECIAL INSTRUCTIONS Site-Wide Generator Knowledge Informat		Total Activity Exemption: Yes 🗹 No
Sample No.	Lab ID	٠	Date	Time	No/Type Container	Sample Analysis		Preservative
B1TX06	2	^	2.5.08	LAS	1x20-mL P	Activity Scan	None	
B1TX06		8		-	3x100p-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2	2
B1TX06		8			2x4000-mL G/P	1129LL_SEP_LEPS_GS_LL: 1-129 (1)	None	
B1TX06	10	8			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2	2
B1TX06		3	*	-	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None	

K mr3R





Sample Check-in List

Date	e/Time Received: 05/05/08 1540	GM Screen Result 07
Clie	nt: Poul SDG #: W0539	92 NA SAF#: 808-004 NA
Wor	rk Order Number: <u>J8EU</u> 50216	Chain of Custody # 508-004-47, 1145, 815, 275
Ship	pping Container ID:	Air Bill #
1	Custody Seals on shipping container intact?	NA[] Yes[] No[]
2	Custody Seals dated and signed?	NA [Yes [/ No []
3	Chain of Custody record present?	NA[] Yes [] No[]
4.	Cooler Temperature:NA / 5	Vermiculite/packing materials is NA ⋈ Wet [] Dry []
6.	Number of samples in shipping container:	
7.	Sample holding times exceeded?	NA[] Yes[] No[]
8	Samples have Tape Custody Seals	Hazard Lables Appropriate Sample Lables
Ŋ	Samples are: In Good Condition Broken	Leaking Have Air Bubbles (Only for samples requiring no head space.)
10.	Sample pH taken? NA[] pH<2[pH>2/]	pH>9 [] Amount HNO, Added
11.	Sample Location, Sample Collector Listed? * *For documentation only. No corrective action needed.	
12.	Were any anomalies identified in sample receipt?	Yes No
13.	Description of anomalies (include sample numbers):	
Samp	ple Custodian: S. Im, Uh	Date: 05/05/08
	Chent Sample ID Analysis Requested	Condition Comments/Action
	t Informed on by	Person Contacted
1] N	so action necessary; process as is.	
Proje	et Manager	Date

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST SAF No. WITH THE PROPERTY Contact Requester SAF No. WITH THE ANALYSIS REQUEST SAF No. WITH THE ANALYSIS REQUEST SAF No. WITH THE ANALYSIS REQUEST SAF No. WITH THE ANALYSIS REQUEST FOR A APRIL 2008 Saft Total FOR A APRIL 2008 Saft Total FOR A APRIL 2008 Saft Total S	Teoues No. MSIN FAX 509-373-5869 Purchase Order/Charge Code Re Chest No. SML - 60 U Temp. Bill of Ladine/Air Bill No. Offsite Property No. Time Total Activity Exemption: Yes W No Horse Hot to pH <2 None HCt to pH <2
Priority: 45 Days Priority: 45 Days Special Instructions Hold Site-Wide Generator Knowledge Information For Instruction (1) Sample Analysis Sample Analysis LSC: Tc-99 (1)	Page 1 of BENO. MSIN FAX 34-2869 C Order/Charge Code 1 No. SML - 60 O Temp. Ading/Air Bill No. Total Activity Exemption: Yes Vone HOO3 to pH <2 None HCt to pH <2
Priority: 45 Days Priority: 45 Days Special INSTRUCTIONS Hold Site-Wide Generator Knowledge Information For Instruction (1) Sample Analysis LSC: Tc-99 (1)	13-5869 13-5869 14 Order/Charge Code 15 No. SML - 60 O Temp. 17 No. SML - 60 O Temp. 17 Toperty No. 17 Total Activity Exemption: Yes Value of the Color of the Co
Priority: 45 Days Priority: 45 Days Special Instructions Hold Site-Wide Generator Knowledge Information For Sample Analysis Uranium (1) LSC: To-99 (1)	Toperty No. Total Activity Exemption: Yes IM None HO3 to pH <2 HC1 to pH <2
Priority: 45 Days Priority: 45 Days SpeCIAL INSTRUCTIONS Hold Site-Wide Generator Knowledge Information For Sample Analysis Curanium (1) LSC: Tc-99 (1)	t No. SML - 60 U Temp. adine/Air Bill No. Total Activity Exemption: Yes ► HNO3 to pH <2 None HC! to pH <2
Site-Wide Generator Knowledge Information For Site-Wide Generator Knowledge Information For Carnium (1) Sample Analysis LSC: Tc-99 (1)	roperty No. Total Activity Exemption: Yes Preservative HNO3 to pH <2 None HCt to pH <2
Ste-Wide Generator Knowledge Information For Ste-Wide Generator Knowledge Information For Uranium (1) LSC: To-99 (1)	Total Activity Exemption: Yes Preservative HNO3 to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <2 HCt to pH <3 HCt to pH <4 H
. Uraniu	Total Activity Exemption: Yes Preservative HNO3 to pH <2 None HCt to pH <2
G/P UTOT_KPA: Uranium (1) Activity Scan G/P TC99_SEP_LSC: Tc-99 (1)	HNO3 to pH <2 None HC! to pH <2
G/P UTOT_KPA: Uranium (1) Activity Scan G/P TC99_SEP_LSC: Tc-99 (1)	
G/P TC99_SEP_LSC: Tc-99 (1)	
G/P TC99_SEP_LSC: Tc-99 (1)	
KMK3C	
3 am	
5-5 40000	
Date Time Received By Print Print Sign	Matrix *
S Recepted By La S. Smith) 05	Solid T. Shidoe WI
DateTime Received By	
Date/Time Received By	Date/Time
Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By	Date/Time
Date/Time Social	Sign Sign Sign Sign Sign Sign Sign Sign



Sample Check-in List

	e/Time Received: 05.0	15.08 1545	0	GM Screen Result	0/	
Clie	nt: PbW	SDG#: <u>₩05</u> 3	392	ΝΑ[] SAF#: <u></u>	108-004 NAII	
Wor	rk Order Number: <u>J&</u>				08-004-181	
Shipping Container ID:			Air Bill #			
1	Custody Seals on shipping container intact? NA[] Yes[] No					
2	Custody Seals dated and signed?			NA[] Yes[/ No[]		
3.	Chain of Custody record pro	rsent?	NA Yes / No []			
4.	Cooler Temperature:	NA // 5	Vermiculito	e packing materials	is NA Wet[] Dry[]	
6.	Number of samples in shipp	ing container:/				
7	Sample holding times exceeded?			NA[/] Yes[] No[]		
8	Samples have: Tape Custody Seals	Hazard Lables Appropriate Sample Lables				
9	Samples are: In Good Condition Broken	Leaking Have Air Bubbles (Only for samples requiring no head space.)				
10.	Sample pH taken? NA []	pH<2//> pH>2[]	pH>9[]	Amount HNO ₃ A	Added Kone	
11.	Sample Location, Sample Collector Listed? * *For documentation only. No corrective action needed.					
12	Were any anomalies identified in sample receipt?			Yes [] No [/]		
13.	Description of anomalies (include sample numbers)					
		1 (1)		* P1: 840	16 15 18	
Sam	ple Custodian:	om. ur		Date	: 05 05 .08	
	Client Sample ID	Analysis Requested	<u>Co</u>	ondition	Comments/Action	
Clien	Informed on	by		Person Contacted		
	lo action necessary, process as				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
# 12-61	216		.9			
Projec	ct Manager			Date		

Wine
Tinnid
Veretation
Other Drum Solid Drum Linui 108-032-69 Total Activity Exemption: Yes V No Preservative jo £5-}-× Matrix * FAX Date/Time Page Temp. C.O.C. # MSIN HNO3 to pH <2 Purchase Order/Charge Code v.#.8.#.≥c < Bill of Lading/Air Bill No. None Offsite Property No. 25 CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST Telephone No. 509-373-5869 Date/Time Date/Time Date/Time Ice Chest No. SPECIAL INSTRUCTIONS Hold Time 100 Area Generator Knowledge Information Form applies. KANCS Φ Sample Analysis 6 20 08 Disposed By SRISO_SEP_PRECIP_GPC: Sr-90 (1) Priority: 45 Days DUE Activity Scan 29520W CERCLA
POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order \$400.5 (1990/1993) eceived By Received By Method of Shipment Contact/Requester Sampling Origin Hanford Site Govt Vehicle Disposal Method (e.g., Return to customer, per lab procedure, used in process) No/Type Container 3x1000-mL G/P 1x20-mL P Date/Time Date/Time 18E070109 MAY 0 6 2008 Time 163 5.60 Date TestAmerica Incornorated Richland ≥ 3 * 100KR4IAM(1/2), APRII, 2008 FLUOR HANFORD Lab ID Roy Sickle FINAL SAMPLE DISPOSITION Roy Sickle inned To (Lab) Sample No. Relinquished By Relinquished By Relinquished By Relinquished By Project Title FLUO FLUO SAFNa. B1TW23 B1TW23



Dat	e/Time Received: <u>5</u> (.08 1515	GM Scr	een Result _O, /K
Clie	nt: PGW	SDG#: <u></u>	5397 NA[]	SAF#: 108-032-NA[]
Wo	rk Order Number: <u>J8E</u>	070109	Chain of Custo	dy# IO8-032-69
Ship	oping Container ID:		Air Bill #	
1.	Custody Seals on shipping	container intact?	NA[] Ye	s[TNo[]
2.	Custody Seals dated and sig	gned?	NA[] Ye	No[]
3.	Chain of Custody record pr	esent?	NA[] Ye	No[]
4.	Cooler Temperature:	NA []	5. Vermiculite/packin	g materials is NA [Wet [] Dry []
6.	Number of samples in shipp	oing container:		
7.	Sample holding times exceed	eded?	NA LY Ye	[] No[]
8	Samples have: Tape Custody Seals			lazard Lables Appropriate Sample Lables
9.	Samples are: In Good Conditi Broken	on	I F (Only for sar	eaking lave Air Bubbles mples requiring no head space.)
10.	Sample pH taken? NA []	pH<2[] pH>2[]	pH>9[] Amo	ent HNO3 Added
11.	Sample Location, Sample C *For documentation only. N	ollector Listed? * No corrective action needed	i.	
12.	Were any anomalies identifi	ed in sample receipt?	Yes	[] No[]
13.	Description of anomalies (in	clude sample numbers): _		
Sam	ple Custodian:	PH-		Date: _5 608
	Client Sample ID	Analysis Requested	Condition	Comments/Action
	Informed on		Person (Contacted
[] N	lo action necessary; process as	is.		
Projec	ct Manager		Date	

			,				COSTODIOSAMPLE ANALYSIS REQUEST	IS KECUESI		+0-0C0-00T
			87	18E070111		W05392	DUE 60008	KMNC8		Page 1 of 1
ollector Roy Sickle	Kle				Conta	Contact/Requester Steve Trent		Telephone No. 509-373-5869	MSIN	FAX
20-801 08-036					Samp	Sampling Origin Hanford Site		Purchase Order/Charge Code	harge Code	
Project Title 100KR4IAM(1/2), MAY 2008	AY 2008					15-1	h1.325.	Ice Chest No.	Te	Temp.
Shinned To (Lab) TestAmerica Incornorated Richland	ated Rich	pue			Meth	Method of Shipment Govt. Vehicle		Bill of Lading/Air Bill No.	Bill No.	
Protocol CERCLA							Priority: 45 Days	Offsite Property No.	io.	
POSSIBLE SAMPLE HAZARDS/REMARKS	IAZARDE	SVREMA	IRKS				SPECIAL, INSTRUCTIONS Hold Time 100 Area Generator Knowledge information Form applies.	Hold Time nation Form applies.	Total Activity	Total Activity Exemption: Yes 🗹 No
e No.	Lab ID	\vdash		Time	No/Type Container	-	Sample Analysis	sis		Preservative
B1VC57		3	1800	tzyle	1x1000-mL P	906.0_H3_LSC: Tritium (1) ~	2: Tritium (1) ~	4	None	
B1VC57		>	1	_				2	None	
B1VC57		3	-	-			4(1) -	2	None	
BIVC5/		3	4	-	3х1000-ш. С/Р		SRISO_SEP_PRECIP_GPC: Sr-90 (1)		HNO3 to pH <2	
		+			11/2	The shit		10	110 11	
Roy Sickle		N	Name of the second	/5 MAY 0 6	S 2 Date/Figure	W. R. Bardy	Print Sign	1515 Date/Line	S S	Matrix *
Refinquished By	1			E .	Date/Time	Regeived By	MAI	Date/Time	S. Spill Schill Schill Schill Schill Schill Schill Schill Schild	DS = Drum Solid D1 = Drum Lioni T = Tissue W1 = Wine
Relinquished By					Date/Time	Received By		Datc/Time	W - Water O - Oil A - Air	_>×
Relinquished By					Date/Time	Received By		Date/Time		
FINAL SAMPLE	Dienoral Mo	shod to a	Datum to m	1	Discount Mashad to a Date of the control of the con	NEXT SERVE				1 57.2



Dat	e/Time Received: 5	608 1515	GM Screen R	Result O, IK
Clie	nt: Paw	SDG #: _ WOS		#: <u>IO8-D36</u> NA[]
Wor	rk Order Number: <u>J8</u>	E070111	Chain of Custody #	
Ship	oping Container ID:	Л		
1.	Custody Seals on shipping	container intact?	NA[] Yes	No []
2.	Custody Seals dated and s	igned?	NA[] Yes()]	No[]
3.	Chain of Custody record p	resent?	NA[] Yes	No[]
4.	Cooler Temperature:	NA IT 5	. Vermiculite/packing mate	erials is NA [Wet [] Dry []
6.	Number of samples in ship			EAST PROFITE
7.	Sample holding times exce	eeded?	NA [Yes [] 1	No[]
8	Samples have: Tape Custody Seals		Hazard Approp	Lables riate Sample Lables
9.	Samples are: In Good Condit Broken	ion	Leaking Have A	
10.	Sample pH taken? NA []	pH<2 // pH>2 //	pH>9[] Amount HI	NO ₃ Added_
11.	Sample Location, Sample (*For documentation only.	Collector Listed? * No corrective action needed.		
12.	Were any anomalies identif	fied in sample receipt?	Yes[] N	1017
13.	Description of anomalies (i	nclude sample numbers):		
Samp	ole Custodian:	R		Date: _5 6 08
	Client Sample ID	Analysis Requested	Condition	Comments/Action
	Informed on		Person Contact	ted
	t Manager		Date	
7.			Date	

FLIIOD HANEODD					C.O.C.#
EST		0	F CUSTODY/SAMPLE ANALYSIS REQUEST	REQUEST	S08-004-233
AM	J8E070113		392 bue 62008	KMNDE	Page 1 of 1
Collector D. J. Sparks		Contact/Requester Sleve Trent		Telephone No. MSIN	IN FAX
C SO8-004		Sampling Origin	rigin Str	Purchase Order/Charge Code	
Δ.		7	11W F-10-506-10	Ice Chest No. Sm L-Y 6]	Temp.
Shinned To (Lah) TestAmerica Incorporated Richland	pu	Method of Shipment		Bill of Lading/Air Bill No.	
Protocol SURV			Priority: 45 Days	Offsite Property No.	
POSSIBLE SAMPILE HAZARDS/REMARKS ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400 5 (1990/1993)	REMARKS concentrations that are not regulated 93)	for transportation per 49	Site		Total Activity Exemption: Yes 🗹 No
e No. Lab ID	Date Time	No/Type Container	Sample Analysis		Preservative
	M 5/6/08 O924 W		Activity Scan	None	
		3x1000-mL G/P		HNO3 to pH <2	-2
8	>	2x4000-mL G/P	1129LL_SEP_LEPS_GS_LL: 1-129 (1)	None	
			The second secon		
			S CALCULATION OF A LIGHT CONTRACT OF A LIGHT C		
					2
		21/1/2	pp.	54/48	111
Relinquished By D. J. Sparks	STATE OF THE PARTY	15/ SDaerfluggy	Regard by Print Sign	MAY 0.6 2008	Matrix *
Relinquished By		Date/Time		Date/Time SO SI.	Solid T Tissue Slide WI - Wine
Relinquished By		Date/Time	Received By		_>×
Relinquished By		Date/Time	Received By	Date/Time	
FINAL SAMPLE Disposal Meth	Disposal Method (e.g., Return to customer, per lab procedure, used in	procedure, used in process)	ss) Disposed By		Date/Time
NO LICE COLOR					

HEI ITOD HANGODD	NEODD							Co.C.#
H YOOT H	NFORD				CHAIN OF	OF CUSTODY/SAMPLE ANALYSIS REQUEST	EQUEST	S08-004-73
PAI			SI	EOT	USECTOIIS L	80027 BNG 25850M		Page 1 of 0
2.	D. J. Sparks				Contact/Reque	tster	Telephone No. MSIN	IN FAX
PSAF No.					Sampling Origin Hanford Site		Purchase Order/Charge Code	
Project Title SURV. APRIL 2008	2008				72	F-W-506-10	Ice Chest No. 6 W-	Temp.
Shinned To (Lah)					Method of Shipment		Bill of Ladina/Air Bill No.	
TestAmerica Incomorated Richland	cornorated Ric	hland			Govt Vehicle		OH DESTRUCTION DATE OF THE PARTY OF THE PART	
Protocol						Priority: 45 Days	Offsite Property No.	
POSSIBLE SAMPLE HAZARDS/REMARKS • • Contains Radioactive Material at concentration releasable per DOE Order 5400.5 (1990/1993)	PLE HAZARI dioactive Materi rder 5400.5 (199	DS/RE	MARKS ncentrations that	l are not regul	SIBLE SAMPLE HAZARDS/REMARKS • Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not sable per DOE Order 5400.5 (1990/1993)	SPECIAL INSTRUCTIONS Hold Time Site-Wide Generator Knowledge Information Form applies.		Total Activity Exemption: Yes 🗹 No
Sample No.	Lab ID	٠	Date	Time	No/Type Container	Sample Analysis		Preservative
B1TWR1	KMMZ		2/8/03	1134	1x20-mL P	Activity Scan	None	
B1TWR1		≥	_	_	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2	一
B1TWR1	1	>			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2	2015/2
B1TX39	KMNDL	¥			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1) ~	HCI to pH <2	小第
B1TX39		8		1	1x500-mL G/P	UTOT_KPA: Uranium (1) ~	HNO3 to pH <2	
B1TX39		×	W.		1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2) /	HNO3 to pH <2	2
B1TX39		٨		/	2x4000-mL G/P	1129_SEP_LEPS_GS: 1-129 (1) ~	None	
B1TX39	1	>	→	→	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None	

Matrix * ~ # 8 # ¥ C ∢ MAY N 6 200 Date/Time Date/Time Sign Disposed By eccived By Received By Disposal Method (e.g., Return to customer, per lab procedure, used in process) MAY 0.6 2006 Date/Fime Date/Time Date/Time FINAL SAMPLE DISPOSITION D. J. Sparks Relinquished By Relinquished By Relinquished By Relinquished By



Dat	e/Time Received: _ 5	608 1515	GM Screen	Result O, 1 K
Clie	nt: Paw	SDG#:_ WのS		#: 508-004 NA []
	rk Order Number: 186			508-004-233,-73
Ship	oping Container ID:			
1.	Custody Seals on shipping	container intact?	NA[] Yes	No[]
2.	Custody Seals dated and sig	gned?	NA[] Yes	No[]
3.	Chain of Custody record pr	esent?	NA[] Yes	No []
4.	Cooler Temperature:	NAH	. Vermiculite/packing ma	terials is NA [Wet [] Dry []
6.	Number of samples in shipp	oing container: _3_		
7.	Sample holding times exceed	eded?	NA [Yes []	No []
8	Samples have: Tape Custody Seals			d Lables priate Sample Lables
9.	Samples are: In Good Conditi Broken	on		ng Air Bubbles s requiring no head space.)
10.	Sample pH taken? NA[]	pH<2 [/ pH>2 [/	pH>9[] Amount E	INO3 Added
11.	Sample Location, Sample C *For documentation only. 1	ollector Listed? *		
12.	Were any anomalies identifi	ed in sample receipt?	Yes[]	No []
13.	Description of anomalies (in	iclude sample numbers):		
Sam	ple Custodian:	RH		Date: 5 6 08
	Client Sample ID	Analysis Requested	Condition	Comments/Action
Clien	Informed on	by	Person Conta	octed
[]N	o action necessary; process a	s is.		
Projec	et Manager		Date	

FLUOR HANFORD	ORD			CHAIN OF	OF CUSTODY/SAMPLE ANALYSIS REQUEST	REQUEST	CO.C.# S08-004-37
		7	SE DT	J8E070115 W	WOSSTZ DUE 6 20 08 KMNEL	MNEL	Page 1 of 0
HCollecto Roy Sickle	9			Contact/Requester	quester	Telephone No. M.	MSIN FAX
AF No. 508-004				Sampling Origin)rigin Sire	Purchase Order/Charge Code	
Project Title SURV. APRIL 2008					11 -025 - M-4NH	Ice Chest No.	Temp.
Shinned In (Lah)				Method of Shipment	Shipment	Bill of Ladins/Air Bill No.	
TestAmerica Incomprated Richland	ued Richla	pur		Govt. Vehicle	hicle		
Protocol SURV					Priority: 45 Days	Offsite Property No.	
POSSIBLE SAMPLE HAZARDS/REMARKS ** ** Contains Radioactive Material at concentrations releasable per DOE Order 5400,5 (1990/1993)	AZARDS/	REMARKS t concentrations th	at are not regula	SIBLE SAMPLE HAZARDS/REMARKS ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not able per DOE Order 5400.5 (1990/1993)	SPECIAL INSTRUCTIONS Site-Wide Generator Knowledge Informat		Total Activity Exemption: Yes 🗹 No 📙
Sample No.	Lab ID	+ Date	Time	No/Type Container	Sample Analysis		Preservative
B1TWF3	_	W 5.608	2011	1x20-mL P	Activity Scan	None	
B1TWF3	1) M	_	2x1000-mL G/P	C14_LSC: C-14 (1) -	None	
B1TWF3	_	A		1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1) ~	HCI to pH <2	2
B1TWF3	-	W		1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2) ~	HNO3 to pH <2	<2
B1TWF3	_	M M		1x1000-mL P	906.0_H3_LSC: Tritlum (1) ~	None	

				7.1			C.O.C.#
FLUOR HANFORD				CHAIN OF	CUSTODY/SAMPLE ANALYSIS REQUEST	REQUEST	S08-004-38
FAN		Ť	SEDT	18E070115 W	WOS392 DUE 62008 KMNES	KMNE 3	Page 1 of Q
Collector Roy Sickle				Contact/Requester Steve Trent		Telephone No. MSIN	IN FAX
SAF No. SD8-004	F			Sampling Origi Hanford Site	c Origin	Purchase Order/Charge Code	24
Project Title SURV. APRII. 2008					HN-920 A-1NH	Ice Chest No.	Temp.
Shinned To (Lab) TestAmerica Incorporated Richland	ichland			Method of	of Shinment Vehicle	Bill of Lading/Air Bill No.	
Protocol SURV					Priority: 45 Days	Offsite Property No.	
POSSIBLE SAMPLE HAZARDS/REMARKS ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per releasable per DOE Order 5400.5 (1990/1993)	RDS/RE	MARKS ncentrations that	at are not regula	ated for transportation per 49	SPECIAL INSTRUCTIONS Hold Time Site-Wide Generator Knowledge Information Form applies.	-	Total Activity Exemption: Yes 🗹 No
Sample No. Lab ID	·	Date	Time	No/Type Container	Sample Analysis		Preservative
B1TWF4	M	295	1260	1x20-mL P	Activity Scan	None	
B1TWF4	×			2x1000-mL G/P	C14_LSC: C-14 (1)	None	44 - 44 - 55
B1TWF4	W		_	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCI to pH <2	
B1TWF4	×		-	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2	2
B1TWF4	8	-	>	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None	

25-¥->× Matrix * ×2€25×0< Date/Time Date/Time 0 6 2008 MAY Disposed By eceived By Received By Disposal Method (e.g., Return to customer, per lab procedure, used in process) Date/Time Date/Time MAY 0 6 2008 Relinquished By Roy Sickle FINAL SAMPLE DISPOSITION Relinquished By Relinquished By Relinquished By

S08-004-31 Total Activity Exemption: Yes No Preservative Jo FAX Page Temp. C.O.C. # MSIN HNO3 to pH <2 HNO3 to pH <2 HCI to pH <2 Telephone No. MS 509-373-5869 Purchase Order/Charge Code Bill of Lading/Air Bill No. None None Offsite Property No. CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST ice Chest No. DUE 6 2003 KMNEG SPECIAL INSTRUCTIONS Hold Time Site-Wide Generator Knowledge Information Form applies Sample Analysis 9310_ALPHABETA_GPC: Alpha + Beta (2) ~ SRISO SEP PRECIP GPC: Sr-90 (1) TC99_ETVDSK_LSC: Tc-99 (1) ~ Priority: 45 Days 14 Nr. 4.506. C14_LSC: C-14 (1) W05392 Activity Scan OSSIBLE SAMPI.E HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not eleasable per DOE Order 5400.5 (1990/1993) Method of Shipment Govt. Vehicle Contact/Requester Steve Trent Sampling Origin Hanford Site No/Type Container 3x1000-mL G/P 2x1000-mL G/P 1x1000-mL P 1x500-mL P 1x20-mL P J8E070115 Time 327.5 Date ≥ ≥ ≥ ≥ ≥ inned To (Lah)

TestAmerica Incommuted Richland Lab ID FLUOR HANFORD Collecto Roy Sickle SURV APRIL 2008 Sample No. S08-004 B1TWF0 B1TWF0 **B1TWF0** B1TWF0 B1TWF0 SURV rotocol

Drum Solid Drum Liani 25 - ₹ ->× Matrix * Date/Time ~ 7 8 × 3 C < Date/Time Date/Time MAY eceived By Received By Disposal Method (e.g., Return to customer, per lab procedure, used in process) Date/Time Date/Time 0 6 2008 MAY Roy Sickle FINAL SAMPLE DISPOSITION Relinquished By Relinquished By Relinquished By



Dat	e/Time Received: 56	08 1515	GM Screen 1	Result 0, 1K
Clie	nt: PGW	SDG #: WOS	392_NA SAF	#: 508-004 NA[]
	rk Order Number: <u>186</u>			508-004-37,-38,-3
Shij	oping Container ID:			
1.	Custody Seals on shipping	container intact?	NA[] Yes	
2.	Custody Seals dated and sig	gned?	NA[] Yes	
3.	Chain of Custody record pr	esent?	NA[] Yes	No[]
4.	Cooler Temperature:	NA [. Vermiculite/packing ma	terials is NA [] Wet [] Dry []
6.	Number of samples in shipp			
7.	Sample holding times exce	eded?	NA [Yes []	No[]
8	Samples have: Tape Custody Seals			d Lables priate Sample Lables
9.	Samples are: In Good Conditi Broken	On		ng Air Bubbles requiring no head space.)
10.	Sample pH taken? NA []	pH<2 // pH>2 //	pH>9[] Amount H	INO3 Added
11.	Sample Location, Sample C *For documentation only. 1		i.	
12.	Were any anomalies identifi	ed in sample receipt?	Yes[]	No []
13.	Description of anomalies (in	nclude sample numbers)		
Sam	ple Custodian:	RF		Date: 5 6 08
	Client Sample ID	Analysis Requested	Condition	Comments/Action
Clien	t Informed on	by	Person Conta	cted
[] N	lo action necessary; process a	s is.		
Proje	ct Manager		Date	

6/4/2008 1:50:45 PM	Sample Preparation/Analysis	lysis		Balanc	Balance Id:1120482733	2733	
384868, Pacific Northwest National Laboratory, Pacific Northwest National Lab	AZ Gross Alpha PrpRC5014 S7 Gross Alpha by GPC using Am-241 curve	ě		ā	Pipet #:		w.
6	RD			Sep1 DT/Tm Tech:	lech:		
Batch: 8134482 WATER pCI/L	PM, Quote: SS, 57671	171		Sep2 DT/Tm Tech:	rech:	:	
מארם המתמנון ובסגר ואסונים				Prep	Fech: ,Harris	Prep Tech: ,HarrisD (Bxx)	
Work Order, Lot, Total Initial Aliquot QC Tracer Sample DateTime Amt/Unit Prep Date	Dish Ppt or Size Geometry	_	Detector II	Count On Off (24hr) Circle	CR Analyst, Init/Date	yst, Comments:	
1 KME2V-1-AC 200.00g.in	1.5	00	4 13	1.601	1.1.1		
J8E010329-1-SAMP	1.15) -	10	144/	0/15/00	. 0	, v
8 09:16 AmtRec: 20ML.	s:3		Sor	Alpha: 9.08E-06 uCi/Sa	Sa	Beta: 3.09E-05 uCi/Sa	
2 KME2V-1-AE-X 200.00g.in		_	577				
J8E010329-1-DUP	40.1		2				CAV
AmtRec: 20ML,2XLP #Container	rs: 3		Scr.	Alpha: 9.08E-06 uCi/Sa	Sa	Beta: 3.09E-05 uCi/Sa	
3 KME20-1-AC 200.20g.in							
J8E010329-2-SAMP	32.9	State of the state	ダ				
05/01/2008 10:38	ırs 3	-	Scr.	Alpha: 4.55E-05 uCi/Sa	/Sa	Beta: -1.46E-04 uCi/Sa	
4 KME22-1-AC 200.10g,in			and the second s			10 m 10 m 10 m 10 m 10 m 10 m 10 m 10 m	
J8E010329-3-SAMP	4.7	-	Ca				
05/01/2008 11:40 #Containers: 3	IR: 3		Scr.	Alpha: -9,48E-05 uCi/Sa	/Sa	Beta: 5.30E-05 uCi/Sa	
5 KME27-1-AC 200.10g,in			517				
J8E010329-4-SAMP	48.6		2			3	-
05/01/2008 12:23 #Containers 3	irs 3		Sar.	Alpha: 3.60E-04 uCi/Sa	/Sa	Beta: -2.78E-04 uCi/Sa	
6 KMKW3-1-AD 172.30g.in			J.				
J8E050200-1-SAMP	33.7		10,		-		-
05/05/2008 10:15 #Containers: 7	ainers: 7		Scr.	Alpha: -1.82E-04 uCi/Sa	/Sa	Beta: 2.06E-04 uCi/Sa	
7 KMK2R-1-AC 200.20g,in			-	7	x25"/2		
J8E050216-1-SAMP	28.3		2	1543	1		
05/05/2008 11:33 AmiRec: 20ML,500MLP,4XLP #Conte	#Containers: 6		Scr.	Alpha: -2.37E-04 uCi/Sa	VSa	Beta: -1.29E-04 uCi/Sa	
		_					
TAL Richland Key:	Sep2 Page 1	ISV - Ins	ufficient Volun	ISV - Insufficient Volume for Analysis		WO Cnt: 7	
Hichland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added	d Added					Frep_SampleFrep v4.8.32	V.

3			212	Balance Id:1120482733	1120482733
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab		C5014		Pipet #:	
AnalyDueDate: 06/16/2008	51 GLIENT: HANFORD	5/ Gross Alpha by GPC using Am-241 curve 5! CLIENT: HANFORD	a)	Sep1 DT/Tm Tech:	
Batch: 8134482 WATER SEO Batch, Test: None	pCi/L P	PM, Quote: SS, 57671	1	Sep2 DT/Tm Tech:	3
				Prep Tech: ,HarrisD	,HarrisD
Work Order, Lot, Total Sample DateTime Amt/Unit	Initial Aliquot OC Tracer D Amt/Unit Prep Date S	Ppt or Geometry	_	Count On Off (24hr) Circle	CR Analyst, Comments:
8 KMK21-1-AC	200.10g,in	0.1	50		61.10x
1		34.8	20/	> > \	//s 5
05/05/2008 12:24	AmtRec: 20ML,2XLP #Containers: 3	3	Sar	Alpha: 5/85E-05 uCi/Sa	Beta: -1.02E-04 uCi/Sa
9 KMK25-1-AC	185.20g,in		38		
108		38.2	2		
05/05/2008 11:01	AmtRec: 20ML,2XLP,2X4LP #Containers: 5	ers: 5	Scr.	Alpha: 7.08E-04 uCi/Sa	Beta: 1.55E-04 uCi/Sa
10 KMK3R-1-AC	185.00g,in		C		
J8E050216-4-SAMP		بر 8	1 0/		
05/05/2008 13:07	AmtRec: 20ML,5XLP,2X4LP #Containers: 8	ers: 8	Sor	Alpha 3.29E-04 uCi/Sa	Beta: 6.31E-04 uCi/Sa
11 KMNDL-1-AC	200.20g,in				
J8E070113-3-SAMP		43.1	38/		
	۵,	#Containers: 6	Sar	Alpha: 1.03E-03 uCI/Sa	Beta: -7.81E-04 uCi/Sa
12 KMNEL-1-AC	200.00g,in		7		
J8E070115-1-SAMP	J8E070115-1-SAMP	33.5	10/		
05/06/2008 11:03		#Containers: 6	Sar	Alpha: 1.17E-04 uCi/Sa	Beta: -1.21E-04 uCi/Sa
13 KMNE3-1-AC	200.30g,in	ì	46	8121	0/10/08000
05/06/2008 07:30 AntHee: VIA	L20.500MLP.4XLP	#Containers: 6	Scr	Aloha: -3.53E	Bala: 2.26E-04 uCI/Sa
14 KMNE6-1-AA					
J8E070115-3-SAMP		78.8	(00)	_	
	AmíPec: VIAL20,500MLP,6XLP #Conta	#Containers: 8	Sor	Alpha: -1.58E-04 uCi/Sa	V Beta: -3.19E-05 uCI/Sa
TAL Richland Key: In - Initial Amt,	t, fil - Final Amt, dl - Diluted Amt, s1 - Sep1, s2 - Sep2	ep2 Page 2	ISV - Insufficient Volume for Analysis	ume for Analysis	WO Cnt: 14
Richland Wa	bd - Pren Dt r - Reference Dt ec-Enrichment Cell of-Cooktailed Added	Added			Pren SamplePren v4 8 32

Prep_SamplePrep v4.8.32 Comments: WO Cnt: 16 Beta: Beta: De 10/01/03 Balance Id:1120482733 CR Analyst, Init/Date Prep Tech: ,HarrisD Date Pipet #: Sep2 DT/Tm Tech: Sep1 DT/Tm Tech: 70 Alpha: Alpha: Count On | Off (24hr) Circle ISV - Insufficient Volume for Analysis D. Phiquids reduced ducto act sources Out w/4/05 Scr. Scr Detector 200 3 Pacific Northwest National Lab, SS , 57671 Count Time Min Sample Preparation/Analysis ODRS: B ODRS: B ODRS: B Approved By S7 Gross Alpha by GPC using Am-241 curve Ppt or Geometry 50 Comments: KMKW3-SAMP 'Comments: ISV for DUP so please recount on different detector- DL 6/2/08" 0.0 Sci.Not.: Y Sci.Not.: Y Sci.Not.: Y Page 3 AZ Gross Alpha PrpRC5014 pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Dish Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 5. RPD: 20 51 CLIENT: HANFORD RPD: RPD: Blk Subt.: N Blk Subt.: N Blk Subt.: N QC Tracer Prep Date 05/27/08.pd **ASD4485** DCL:130 UCL: UCL: ill Clients for Batch: 384868, Pacific Northwest National Laboratory Initial Aliquot Amt/Unit Decay to Sabt: Y Decay to Sabt: Y Decay to Sabt: Y LCL: 70 ij ij 200.20g,in 200.20g,in pCi/L pci/L pc1/L DC7/I DEZVIAC-SAMP Constituent List: Total Amt/Unit 05/01/2008 09:16 Uncert Level (#s).: 2 Uncert Level (#s).: 2 Uncert Level (#s).: 2 AnalyDueDate: 06/16/2008 MEZVIAC-SAMP Calc Info 6/4/2008 1:50:48 PM RDL:3 RDL:3 SEQ Batch, Test: None EDI: Work Order, Lot, Sample DateTime J8E130000-482-LCS J8E130000-482-BLK Batch: 8134482 16 KM5FT-1-AC-C MSFT1AA-BLK: MSFT1AC-LCS: IS KMSFT-1-AA-B MSFTIAC-LCS: MSFT1AA-BLK: TAL Richland Richland Wa. Am-241 ALPHA ALPHA TESTAMERICA

6/11/2008 10:04:22 AM

ICOC Fraction Transfer/Status Report ByDate: 6/12/2007, 6/16/2008, Batch: '8134482', User: *ALL Order By DateTimeAccepting

Q Batch V	Vork Ord CurStatus	A	ccepting		Comments
8134482					
AC	Rev1C	HarrisD	6/4/2008 1:40:0	08 PM	
SC		wagarr	IsBatched	5/14/2008 10:29:16 AM	ICOC_RADCALC v4.8.32
SC		HarrisD	InPrep	6/4/2008 1:40:08 PM	RICH-RC-5014 Revision 7
SC		HarrisD	Prep1C	6/4/2008 1:50:49 PM	RICH-RC-5014 REVISION 7
SC		BlackCL	InPrep2	6/9/2008 10:40:26 AM	RICH-RC-5014 REVISION 7
SC		BockJ	Prep2C	6/10/2008 1:26:16 PM	RICH-RC-5014 REVISION 7
SC		BlackCL	InCnt1	6/10/2008 1:28:34 PM	RICH-RD-0003 REVISION 5
C		DAWKINSO	CalcC	6/10/2008 8:55:06 PM	RICH-RD-0003 REVISION 5
SC		nortonj	Rev1C	6/11/2008 10:04:16 AM	RICH-RC-0002 REV 8
IC		HarrisD	6/4/2008 1:50:4	9 PM	
C		BlackCL	6/9/2008 10:40	26	
C		BockJ	6/10/2008 1:26	16 PM	
C		BlackCL	6/10/2008 1:28:	34 PM	
IC		DAWKINSO	6/10/2008 8:55	06 PM	
IC	(4)	nortonj	6/11/2008 10:04	4:16	

AC: Accepting Entry; SC: Status Change

TAL Richland Richland Wa.

Page 1

Grp Rec Cnt: 7 ICOCFractions v4.8.33

MI CO. 00. 7 000 7 10 E					1.06.		5		2012012	
384868, Pacific Northwest National Laboratory	onal Laboratory ,	BC Gross Beta PrpRC5014	RC5014		i.			SE # Tecia	250	
Pacific Northwest National Lab		S8 Gross Beta by GPC using Sr/Y-90 curve	GPC using	Sr/Y-90 curv				Liber #.		
AnalyDueDate: 06/16/2008	WIN5399	51 CLIENT: HANFORD	ORD				Sep1 DT	Sep1 DT/Tm Tech:	я	
D Batch: 8134483 WATER PCV	PCI/L		PM, Que	PM, Quote: SS, 57671	171		Sep2 DT	Sep2 DT/Tm Tech:		
								rep Tech: ,	Prep Tech: ,HarrisD \ \(\omega_{\infty} \kappa_{\infty} \)	16 K
Work Order, Lot, Total Sample DateTime Amt/Unit	Initial Aliquot Amt/Unit	OC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	-	CR Analyst, Init/Date	Comments:
1 KME2V-1-AD	200.30g,in		2.5		3	26A	-	(")	1. 1.668	
J8E010329-1-SAMP	- 1			83.9	. –	۵	<u> </u>		2	
05/01/2008 09:16	AmtRec: 20ML,2XLP #	0ML,2XLP #Conta	#Containers: 3			Scr.	Alpha: 9.08E-06 uCi/Sa	-06 uCi/Sa	Beta: 3.0	Beta: 3.09E-05 uCi/Sa
2 KME20-1-AD JBE010329-2-SAMP	200.30g.in			9		376				
05/01/2008 10:38	AmiRec: 20ML, 2XLP	OML_ZXLP #Contain	Containers: 3			Scr.	Alpha: 4.55E-05 uCi/Sa	-05 uCi/Sa	Beta: -1.4	Beta: -1.46E-04 uCi/Sa
3 KME20-1-AE-X	200.00g,in									
J8E010329-2-DUP			_	7.85		200				
05/01/2008 10:38			Containers 3			Scr.	Alpha: 4.56E-05 uCi/Sa	-05 uCi/Sa	Beta: -1.4	Beta: -1.46E-04 uCi/Sa
4 KME22-1-AD J8E010329-3-SAMP	200.20g.in			69		360	_			
05/01/2008 11:40 AmtRec: 20ML,2XLP		OMI,2XLP #Conta	Containers: 3			Scr.:	Alpha: -9.4BE-05 uCi/Sa	-05 uCi/Sa	Beta: 5.3	Beta: 5.30E-05 uCi/Sa
5 KME27-1-AD	200.00g,in				_	7.4				
J8E010329-4-SAMP	MINE TORK		Containance	85.1		10	Alvha: 3.68E.04 ::Ci/Ca	SiOn M	Bote: .0	Pote: 0.78E.04
6 KMKW3-1-AE	200.20g,in				-	5				
J8E050200-1-SAMP	1			4.69		010				
05/05/2008 10:15	Amthec: 20ML,500G,5XLP	OML,500G,5XLP #Co	#Containers: 7		_	Scr.	Alpha: -1.82E-04 uCi/Sa	-04 uCi/Sa	Beta: 2.0	Beta: 2.06E-04 uCl/Sa
7 KMK2R-1-AD J8E050216-1-SAMP				ع		The				
05/05/2008 11:33	AmtRec: 20ML,500MLP,4XLP	OML,500MLP,4XLP #C	#Containers: 6			Scr.	Alpha: -2.37E-04 uCi/Sa	-04 uCi/Sa	Beta: -1.2	Beta: -1.29E-04 uCi/Sa
			-							
TAL Richland Key: In - Initial Amt,		fl - Final Amt, dl - Dlluted Amt, s1 - Sep1, s2 - Sep2		Page 1	- NSI	ISV - Insufficient Volume for Analysis	une for Analysis	ø	>	WO Cnt: 7
		-								

Pacific Northwest National Laboratory BC Gross Beta PrpRC5014	Beta by GPC using Sr/Y-90 curve T: HANFORD PM, Quote: SS, 57671				Pipet #:	
Mational Lab S8 Gross Beta by Gross Beta	using Sr/Y-90 curv 1, Quote: SS , 576	•				
WATER PCI/L one Total Amt/Unit Prep Date 200.10g,in AmtRec: 20ML, 2XLP #Container 200.30g,in 200.10g,in	1, Quote: SS, 576					
WATER pCi/L one Total Initial Aliquot QC Tracer 200.10g,in 200.10g,in #Container 200.30g,in 200.10g,in #Container	1, Quote: SS, 576			Sep1 DT/Tm Tech:	n Tech:	
Time Amt/Unit Amt/Unit Prep Date 200.10g,in 24 AmtRec: 20ML, 2XLP #Container 24 AmtRec: 20ML, 2XLP #Container 200.10g,in AmtRec: 20ML, 2XLP, 2X4LP #Container 200.10g,in AmtRec: 20ML, 2XLP, 2X4LP #Container 200.10g,in AmtRec: 20ML, 2XLP, 2X4LP #Container 200.10g,in		173		Sep2 DT/Tm Tech:	n Tech:	
Time Total Initial Aliquot QC Tracer 200.10g,in 24				Pre	Prep Tech: ,HarrisD	Osi
200.10g.in 24 AmfAec; 20ML,2XLP 24 AmfAec; 20ML,2XLP 300.30g.in AMP 200.10g.in AMP AmfAec; 20ML,2XLP,2X4LP 200.10g.in AMP	h Ppt or e Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	alyst, Comments:
AMP 200.30g,in AMIP 200.10g,in AMIP 200.10g,in AMIP 200.10g,in	>	3	Se	7C'	10/0/D	70
200.30g.in AMIP AMIP AMIP 200.10g.in AMP	8.18	+	Ş	Alaba-E get ne noise	29.0	
AMP 200.10g.in AMP			2	no de la constante de la const	200	Jeta. 1.025-04 UOVOR
01 AmtRec: 20ML,2XLP,2X4LP 200.10g,in AMP	81.9					-
200.10g,in AMP	3.5		Sor	Alpha: 7.08E-04 uCi/Sa	uCi/Sa	Beta: 1.55E-04 uCi/Sa
		L	4/5			
AmtRac: 20MI 5XI P 2XI P	92.3		, J	Con so now a series	Giro	
			,	To To To To To To To To To To To To To T	0000	Dela Collect ucitos
J8E070113-3-SAMP	83.8		318			
34	iers: 6		Sor.	Alpha: 1.03E-03 uCi/Sa	nC//Sa	Beta: -7.81E-04 uCi/Sa
EL-1-AD 1115-1-SAMP	85.7		310			
05/06/2008 11:03 #Confainers: 6	rs: 6		Sor:	Alpha: 1.17E-04 uCi/Sa	uCi/Sa	Beta: -1.21E-04 uCi/Sa
1	8		391			,
05/06/2008 07:30 AmiRec: VIAL20,500MLP,4XLP #Cortainers: 6	rs. 6		Ser.	Apha: -3.53E-04 uCi/Sa	uCi/Sa	Beta: 2.26E-04 uCVSa
14 KMNE5-1-AC 200.20g.in J8E070115-3-SAMP	451		326			
5/06/2008 10:25 AmtRec: VIAL20,500MLP,6XLP #Containers: 8	rs: 8	ر	Sor:	Alpha: -1.58E-04 uCl/Sa	uCVSa	Beta: -3.19E-05 uCi/Sa
			,	.1		
TAL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2	2 Page 2	nl - VSI	ISV - Insufficient Volume for Analysis	ne for Analysis		WO Cht: 14

Prep_SamplePrep v4.8.32 Comments: WO Cnt: 16 Beta: Beta: Balance Id:1120482733 CR Analyst, Init/Date Prep Tech: ,HarrisD Date: 5/0/2 Pipet #: Sep1 DT/Tm Tech: Sep2 DT/Tm Tech: Count On Off (24hr) Circle Alpha: 1512 1 Alpha: ISV - Insufficient Volume for Analysis 336 Scr. Scr. 3 Detector Id 88 , 57671 Count Time Min Sample Preparation/Analysis ODRS: B ODRS: B ODRS: B Approved By S8 Gross Beta by GPC using Sr/Y-90 curve Pacific Northwest National Lab, Ppt or Geometry Comments: KMKW3-SAMP Comments: ISV for DUP so please recount on different detector- DL 6/2/08* 400 10 Sci.Not.: Y Sci.Not.: Y Sci.Not.: I Page 3 pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added BC Gross Beta PrpRC5014 Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Dish 5 RPD: 20 51 CLIENT: HANFORD RPD: RPD: Blk Subt.: N BIk Subt.: N BIk Subt.: N AmiRec: FContainer OC Tracer Prep Date 04/17/08,pd BESB3255 UCL: 130 i i in a All Clients for Batch: 384868, Pacific Northwest Mational Laboratory 05/01/2008 10:38 AmiBarr Decay to Sabt: Y Decay to Sabt: Y Initial Aliquot Amt/Unit Decay to Sabt: Y ICL: 70 ij rci: 200.30g,in 2400 ONE 6/4/08 200.50g,in PCI/L pci/L pci/L DC1/L MEZVIAD-SAMP Constituent List: Total Amt/Unit 6/4/2008 2:06:06 PM
SS AnalyDueDate: 06/16/2008
H Batch: 8134483
SEQ Batch, Test: None Uncert Level (#s).: 2 Uncert Level (#8) .: 2 Uncert Level (#s).: 2 MEZVIAD-SAMP Calc Info: RDL: 4 RDL:4 Batch: 8134483 SEQ Batch, Test: None KOL: Work Order, Lot, Sample DateTime J8E130000-483-LCS J8E130000-483-BLK 05/01/2008 10:38 IS KMSFV-1-AA-B 16 KM5FV-1-AC-C MSFV1AA-BLK: MSFV1AC-LC8: MSFV1AC-LCS: MSFV1AA-BLK: TAL Richland Richland Wa. Sr-90 BETA BETA

6/11/2008 10:00:05 AM

ICOC Fraction Transfer/Status Report ByDate: 6/12/2007, 6/16/2008, Batch: '8134483', User: *ALL Order By DateTimeAccepting

Batch Wor	k Ord CurStat	us A	ccepting		Comments
8134483				W. W. W. W. W. W. W. W. W. W. W. W. W. W	
4C	Rev1C	HarrisD	6/4/2008 1:52:3	86 PM	
SC		wagarr	IsBatched	5/14/2008 10:29:16 AM	ICOC_RADCALC v4.8.32
SC .		HarrisD	InPrep	6/4/2008 1:52:36 PM	RICH-RC-5014 Revision 7
SC		HarrisD	Prep1C	6/4/2008 2:06:05 PM	RICH-RC-5014 REVISION 7
SC		BlackCL	InPrep2	6/9/2008 10:40:18 AM	RICH-RC-5014 REVISION 7
SC .		BockJ	Prep2C	6/10/2008 1:26:31 PM	RICH-RC-5014 REVISION 7
SC		BlackCL	InCnt1	6/10/2008 1:28:43 PM	RICH-RD-0003 REVISION 5
C		DAWKINSO	CalcC	6/10/2008 8:53:42 PM	RICH-RD-0003 REVISION 5
ic		nortonj	Rev1C	6/11/2008 9:59:56 AM	RICH-RC-0002 REV 8
C		HarrisD	6/4/2008 2:06:0	15 PM	
c		BlackCL	6/9/2008 10:40:	18	
С		BockJ	6/10/2008 1:26	31 PM	
C		BlackCL	6/10/2008 1:28	43 PM	
IC		DAWKINSO	6/10/2008 8:53:	42 PM	
C		nortonj	6/11/2008 9:59:	56	

AC: Accepting Entry: SC: Status Change

TAL Richland

Richland Wa.

Page 1

Grp Rec Cnt:7 ICOCFractions v4.8.33

6/13/2008 12:03:47 PM		S	ample Preparation/Analysis	paration	//Analysis			Balance Id	1120373922,112	Balance Id:1120373922,1120373922,1120
384868, Pacific Northwest National Laboratory	nal Laboratory ,	CL Sr-90 Pr	CL Sr-90 Prp/SepRC5006(5071)	071)		,,,,		Pipet #:	-	
AnalyDueDate: 06/19/2008		TL Sr-85 by 51 CLIENT:	Nal and Sr-90 by GPC 7 day ingrowth HANFORD	by GPC 7	day ingrowt	With 589.7	i	Sep1 DT/Tm Tech: 06/06/2008 11:34,ManisD	: 06/06/2008 11:	34,ManisD
Batch: 8134492 WATER pCi/L SEQ Batch: 8134492 CLTL, 8134494 BNTB, 8134497 ARS6, 8134500 FPS5, 8155308 FPS5, 8161360 5SS3,	pCi/L : 8134481 5SS3, 813 S3,	4482 AZS7, 813448	PM, Q 3 BCS8, 8134492	Duote: SS 2 CLTL, 81	34494 BNTB,	8134497 ARS	6, 8134500	Sep2 DT/Tm Tech: 06/13/2008 08:40,ManisD Prep Tech: ManisD	n: 06/13/2008 08:4 n: ManisD	40,ManisD
Work Order, Lot, Total Sample DateTime Amt/Unit	Initial Aliquot Amt/Unit	OC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KMK3R-1-AF	1002.48g,in	SRTB16216 05/21/08,pd		1.0	22.2	100	, <u>,</u>	1419	P/14/20	
							22	Mule	6/10	
				90	06/06/2008 11:34;s1;-08/13/2008			2	0,50	
05/05/2008 13:07	Amt	AmtRec: 20ML,5XLP,2X4LP	#Containers: 8				Scr:	Alpha: 3.29E-04 uCi/Sa	Beta: 6.3	Beta: 6.31E-04 uCi/Sa
2 KMNC5-1-AA	1000.70g,in	SRTB16217		1.0	21.1	100	73	IMO	(14158A	
J8E070109-1-SAMP		05/21/08.pd		***************************************			0		· · · · · · · · · · · · · · · · · · ·	
				490	06/06/2008-11:34;51;-06/13/2008		7.5	Clear	1/4/7	
05/06/2008 11:03	Amti	AmtRec: VIAL20,3XLP	#Containers: 4				Scr:	Alpha: 3.94E-04 uCl/Sa	Beta: -1.4	Beta: -1.47E-04 uCi/Sa
3 KMNC5-1-AC-X	994.16g,in	SRTB16218		1.0	21.6	100	\mathcal{I}	1/200	5/14/02	
J8E070109-1-DUP	05/21/08.pd	-					(i		
		3.0		90	06/08/2008-11:34;s1,-08/13/2008		J	Chor4	6/18/3	
05/05/2008 11:03	Amil	AmtRec: VIAL20,3XLP	#Containers: 4				Ser.	Alpha: 3.94E-04 uCi/Sa	Beta: -1.	Beta: -1.47E-04 uCi/Sa
4 KMNC8-1-AD	1001.69g,in	SRTB16219		1.0	21.2	100	1.0	Inco	(4.30	
J8E070111-1-SAMP	05/21/08.pd			90	-06/06/2008-11:34;s1;-06/13/2008-		<u> </u>	Obut.	Ci.6~	
05/06/2008 12:46	Amil	AmtRec: VIAL20.6XLP	#Containers: 7				Sor	Alpha: 3.98E-04 uCi/Sa	Beta: 3.6	Beta: 3.68E-05 uC//Sa
								5		
TAL Richland Key:	_	file Final Amt, die Diluted Amt, sternonenten Cell of	Sep1, s2 - Sep2	Page 1		ISV - Insuffic	ISV - Insufficient Volume for Analysis	for Analysis	N oerd	WO Cnt; 4
2	ו, ו י הפופופונים טי, סי	C'ELINGINIELI CON, CA	-כטכאומוופח שממפי						1	מווילים וכל בניכים

E 6/13/2008 12:03:47 PM		Š	Sample Preparation/Analysis	aration/	Analysis		12	Balance	Balance Id:1120373922.1120373922.1120	20373922,1120
	Laboratory,	CL Sr-90 Prp	CL Sr-90 Prp/SepRC5006(5071)	(171)	i			Pipet #:	ŧ	
Pacific Northwest National Lab		TL Sr-85 by I	TL Sr-85 by Nal and Sr-90 by GPC 7 day ingrowth 5i CLIENT: HANFORD	y GPC 7 da	ay ingrowt	£	3,	Sept DT/Tm Tec	Sept DT/Tm Tech: 06/06/2008 11:34.ManisD	34.ManisD
	DC!/I		Md	PM Ounter SC 5757	57671			7	000000000000000000000000000000000000000	
SEQ Batch, Test: None			í					Sepz Divim lec	Sepz DI/Im recn: 00/13/2006 06:40,manisD	to, manisto
								Prep Tec	Prep Tech: ,ManisD	
Work Order, Lot, Total Sample DateTime Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size G	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
5 KMNDE-1-AC	1000.30g,in	SRTB16220		1.0	21.8	100	<u>~</u>	Inw	C7/6/17	
J8E070113-1-SAMP		05/21/08.pd)	1610		
							0 ;	10 . 1.	chile-	
				90/90	06/06/2908-11:34;s1;-98/13/2008		175	2 220		
05/06/2008 09:24	AmtRe	AmtRec: VIAL20,3XLP,2X4LP	#Containers: 6	***************************************			SGT	Alpha: -5.94E-04 uCi/Sa	Beta: 6.7	Bela: 6.74E-04 uCi/Sa
6 KMNDG-1-AC	1000.06g,in	SRTB16221		1.0	21.9	100	١,	Ihui	w/m/a	
J8E070113-2-SAMP							į			
				90/96	96/06/2008-11:34;51; 06/13/2008	96/13/2008	7,	Jul	6/19/2	
05/06/2008 12:34	AmtRe	AmtRec: VIAL20,3XLP,4LP	#Containers: 5				Scr. A	Alpha: 4.60E-04 uCl/Sa	Beta: -1.0	Beta: -1.04E-03 uCVSa
7 KMNE6-1-AE	1000.23g,in	SRTB16222		1.0	21.5	100	E	100	Chilo	
		05/21/08.pd 05/22/07_£)		Additional from the first Assessment for the photostock and of the first and the first	
				99/99	06/06/2008 11:34:51:06/13/2008	-06/13/900B	9	200	4,5,7	
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05/06/2008 10:25	AmtRe	AmtRec: VIAL20,500MLP,6XLP	P #Containers: 8				Scr. A	Alpha: -1.58E-04 uCi/Sa	Beta: -3.1	Beta: -3.19E-05 uCl/Sa
8 KM5GE-1-AA-B	1000.16g,in	SRTB16223		1.0	21.1	100	de	In W	Chilips	
J8E130000-492-BLK	bd.81/08/pd						C	7	0,	
				99/99	06/06/2008 11:34;51; 06/13/2008	.06/13/2008	Ó	53	2 (2)	
05/06/2008 11:03	AmtRec		#Containers: 1				Scr.	Alpha:		Beta:
TAL Richland Key:	t, fi - Final Amt, di	fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2	ep1, s2 - Sep2	Page 2		ISV - Insuffic	ISV - Insufficient Volume for Analysis	or Analysis	8	WO Cut: 8
T Hichiand wa. pd - Prep Dt.	pd - Frep Dt, T - Heterence Dt, ec-Enrichment Cell, ct-Cocktailed Added	Enrichment Cell, ct-	Cocktailed Added						Lieb	riep_sampierrep v4.6.32

6/16/2008 2:59:28 PM

ICOC Fraction Transfer/Status Report ByDate: 6/17/2007, 6/21/2008, Batch: '8134492', User: *ALL Order By DateTimeAccepting

Batch Wo	k Ord CurStat	us A	ccepting		Comments
134492		***			
C	Rev1C	LucasD	5/28/2008 1:51	:33 PM	
C		wagarr	IsBatched	5/14/2008 10:29:16 AM	ICOC_RADCALC v4.8.32
C		LucasD	InPrep	5/28/2008 1:51:33 PM	RICH-RC-5016 Revision 7
C		ManisD	InSep1	5/29/2008 8:34:36 AM	RICH-RC-5006 REV 7
C		ManisD	Sep1C	6/6/2008 11:52:16 AM	RICH-RC-5006 REV 7
iC .		BlackCL	InCnt1	6/6/2008 12:15:21 PM	RICH-RD-0007 REVISION 6
C		DAWKINSO	Cnt1C	6/6/2008 8:00:31 PM	RICH-RD-0007 REVISION 6
C		ManisD	Sep2C	6/13/2008 12:06:44 PM	RICH-RC-5071 REV 5
C		BlackCL	CalcC	6/15/2008 7:17:50 AM	RICH-RD-0003 REVISION 5
C		nortonj	Rev1C	6/16/2008 2:59:21 PM	RICH-RC-0002 REV 8
С		ManisD	5/29/2008 8:34	:36	
С		ManisD	6/6/2008 11:52	:16	
C		BlackCL	6/6/2008 12:15	21 PM	
С		DAWKINSO	6/6/2008 8:00:3	31 PM	
С		ManisD	6/13/2008 12:0	6:44	
C		BlackCL	6/15/2008 7:17	:50	
C		nortonj	6/16/2008 2:59	21 PM	
		€.			

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 8 ICOCFractions v4.8.33

AnalyDueDate: 06/20/2008	A Gamma PyPRCS017	6/3/2008 4:27:47 PM	PM			Sal	nple Pre	Sample Preparation/Analysis	alysis		Balanc	Balance Id:1120482733	33	
Mock Order, Lot, Total Initial Aliquet DCT. Initial Aliquet D	March 1944	Oma t					PGE HPGE				ā	ipet #:		
			06/20/2008				NFORD				Sep1 DT/Tm	Tech:		
Work Order, Lot,			anc		PCI/L						Sep2 DT/Tm	Tech:		
Total Initial Aliquot	Total		2								Prep	Tech: ,HarrisD		
RDL:6.00E+00 DC1/L LCL:	NOTI-0.002-00 DC1/L LCL:	Work Order, Lot, Sample DateTime	_	_	Initial Aliquot Amt/Unit	OC Tracer Prep Date	Dish	Ppt or Geometry	_	_	Count On Off (24hr) Circle	CR Analyst,	-	Comment
RDL:6.00E+00 DC1/L LCL:	No. 1	1.55461	L: 0.00E+00	DC1/L	ICT:	UCL:	RPD:	Cs-134	RDL: 0.00E+00	pci/i		UCL:	RPD:	
RDL:0.00E+00 DCI/L LCL:	Rub. 0.08+00 Dci/L LCi:		L:6.00E+00	PC1/L		DCL:	RPD:	Cs-137DA	RDL: 6.00E+00	pc1/1		DCL:	RPD:	
NDL:10.00E+00 DC1/L LCL:70 UCL:130 RPD:20 Cs-137DA RDL:15 DC1/L LCL:70 UCL:130 NDL:6	NULLIS DC1/L LCL:70 UCL:130 RPD:20 Cs-137DA RDL:0.008+00 DC1/L LCL:70 UCL:130		T:0.00E+00	pc1/L	ig:	OCT:	RPD:	Eu-155	RDL: .00E+00	pci/i		UCL:	RPD:	
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RDL:15 DC1/L LCL:70 UCL:130 RPD:20 Cs-137DA RDL:15 DC1/L LCL:70 UCL:130	NDE-15 DC1/L LCL-70 UCL-130 RPD-20 CG-137DA RDL-15 DC1/L LCL-70 UCL-130 RDL-1- RDL-1-	KMSGD1AC-LCS:												
NDL:6	NDL:6 DC1/L LC1:70 UCL:130 RPD:20 RA-228DA RDL: DC1/L LC1:70 UCL:130		L:15	PC1/L	LCL:70	UCL: 130	RPD:20	Cs-137DA	MDL:15	pc1/1		DCL:130	RPD: 2	
RDL: pCi/L LCL:70 UCL:130 RPD:20 RA-228DA RDL: pCi/L LCL:70 UCL:130 RDL: pCi/L LCL:70 UCL:130 RPD:20 Calc Info: svel (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B evel (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B evel (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B	NDL:		£:6	pci/L	ICL: 70	DCL:130	RPD:20	Ra-226	RDL:	pc1/1		DCL:130	RPD:2	6
RDL: DC1/L LCL:70 UCL:130 RPD:20 Calc Info: svel (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B evel (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B evel (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B	RDL: DC1/L LCL:70 OCL:130 RPD:20 Calc Info: swel (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B swel (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B Approved By		T	DC1/L	LCL: 70	DCL:130	RPD: 20	RA-228DA	RDL:	pCi/		UCL:130	RPD: 2	0
Calc Info: svel (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B evel (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B evel (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B	Calc info: evel (#s).: 2 Decay to Sabt: Y Blk Subt.: N Sci.Not.: Y ODRs: B evel (#s).: 2 Decay to Sabt: Y Blk Subt.: N Sci.Not.: Y ODRs: B Approved By		Ľ:	DC1/L	LCL: 70	OCT:130	RPD:20							
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evel (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B evel (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B	evel (#s).: 2 Decay to Sabt: Y Blk Subt.: N Sci.Not.: Y ODRs: B Approved By	Uncert Leve	1 (#8).: 2	Decay	to Sabt: Y	Blk Subt.			ORs: B					
evel (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B	evel (#s).: 2 Decay to Sabt: Y Blk Subt.: N Sci.Not.: Y ODRs: B Approved By	Uncert Leve	(#s).:	Decay	r to Sabt: Y	Blk Subt.:	z		Rs: B					
Decay to Sabt: Y Blk Subt.: N Sci.Not.: Y ODRs: B Approved By	Decay to Sabt: Y Bik Subt.: N Sci.Not.: Y ODRS: B Approved By	KMSGDIAC-LCS:												
		Uncert Leve	1 (#8).: 2	Decay	r to Sabt: Y	Blk Subt.:			ORS: B					
								Approved	1 By			Date:		

TAL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sept, s2 - Sep2
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

ISV - Insufficient Volume for Analysis

Page 2

WO Cnt: 4 Prep_SamplePrep v4.8.32 6/9/2008 7:47:06 AM

ICOC Fraction Transfer/Status Report ByDate: 6/10/2007, 6/14/2008, Batch: '8134491', User: *ALL Order By DateTimeAccepting

Q Batch Work	Ord CurStat	us	Accepting		Comments
134491					
AC	Rev1C	HarrisD	6/3/2008 4:23:3	80 PM	
SC		wagarr	IsBatched	5/14/2008 10:29:16 AM	ICOC_RADCALC v4.8.32
C		HarrisD	InPrep	6/3/2008 4:23:30 PM	RICH-RC-5015 Revision 6
ic		HarrisD	Prep1C	6/3/2008 4:27:47 PM	RICH-RC-5017 REVISION 6
SC		BockJ	InPrep2	6/4/2008 8:30:28 AM	RICH-RC-5017 REVISION 6
C		BockJ	Prep2C	6/5/2008 9:04:04 AM	RICH-RC-5017 REVISION 6
C		BlackCL	InCnt1	6/5/2008 9:14:15 AM	RICH-RD-0007 REVISION 6
iC .		BlackCL	CalcC	6/5/2008 4:10:25 PM	RICH-RD-0007 REVISION 6
C		nortonj	Rev1C	6/9/2008 7:47:00 AM	RICH-RC-0002 REV 8
C		HarrisD	6/3/2008 4:27:4	17 PM	
C		BockJ	6/4/2008 8:30:2	28 AM	
C		BockJ	6/5/2008 9:04:0	04 AM	
AC .		BlackCL	6/5/2008 9:14:1	5 AM	
IC		BlackCL	6/5/2008 4:10:2	25 PM	
IC		nortonj	6/9/2008 7:47:0	OO AM	

AC: Accepting Entry; SC: Status Change

TAL Richland Richland Wa.

Page 1

Grp Rec Cnt: 7 ICOCFractions v4.8.33

Sample Preparation/Analysis Balance 1d:1120482733	lance Id:1120482733	
Pipet #:	Pipet #:	
Sep1 DT/Tm Tech:	Tm Tech:	
PM, Quote: SS, 57671 Sep2 DT/Tm Tech:	Tm Tech:	
Prep Tech: LucasD Book	rep Tech: LucasD Bock	<i>,</i>
Detector Count On Off Id (24hr) Circle	CR Analyst, Init/Date	Comments:
100 mes 200 min. 6/5 136 6150		
.s.	.s.	
Alpha: -1.82E-04 uCi/Sa	-04 uCi/Sa Beta: 2.06E-04 uCi/Sa	-04 uCi/Sa
611 hos t		
Scr: Alpha: -1.82E-04 uCl/Sa Beta: 2.06E-6	-04 uCi/Sa Beta: 2.06E-04 uCi/Sa	E-04 uCi/Sa
,	6/3/000	
Michae		Doto:
- manda.		
614 1937		
Scr.: Alpha: Be		Beta:
Comments: KMKW3-SAMP "Comments: ISV for DUP so please recount on different detector- DL 6/2/08" Please McCauch On Life detective	3	
fic Northwest National Lab, 88 , 57671		
DEST. 1 CABLAT and /r rive. HINT.		
RDL:1.50E+01 DC1/L LCL:70 UCL:130	UCL: 130	20
RDL:5.00E+01 pCi/L LCL: UCL:	מכניי	
		Ta.
ISV - Insufficient Volume for Analysis		WO Cnt: 4
Sept D Sept D		h: LucasD CR Analysi Init/Date (3) (5/6% 2) (5/6% 2) UCL: UCL: UCL: UCL: UCL:

AnalyDueDate: 66/19/2008 SCLENT: HANCORD S	6/2/2008 4:29:05 PM	5 PM	74		ซื	Imple Pres	Sample Preparation/Analysis	alysis		Bala	Balance !d:1120482733	23
PCI/L PCI/L Prop Date Size Debt Prop Tech: Prop Tech: Prop Tech: Luces D Prop Tech: Prop Tech: Luces D Prop Tech:					AW Gamma P TA Gamma b	rpRC5017					Pipet #:	
Total Initial Aliquot Dish Pix or Court Dish	AnalyDueDate:	06/19/2008			SI CLIENT: I	IANFORD				Sep1 DT/Ti	n Tech:	
Total Initial Aliquot OC Tacor Dish Prep Date Dish Prep Tech: LLucasD Prep Tech: LLucasD Prep Tech: LLucasD Court Out Or Or Or Or Or Or Or O	Batch: 8134490	-		pCi/L						Sen2 DT/Tr	n Tech.	8
Total	SEQ Batch, Test: I	Vone								770		
Authoris										Pre	p Tech: ,LucasD	
NOTICE DECISION	Work Order, Lot Sample DateTime	_		Initial Aliquot Amt/Unit			Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst Init/Date	
RDD:: 508-01 DC:/L LCL:		DL:2.50E+01	pCi/L		UCL	RPD:	Cs-134	RDL:1.50E			OCT:	RPD:
No. No.		DL:1.50E+01	pci/L		DCL:	RPD:	Cs-137D	1100			UCL:	RPD:
NUL: 5.008+01 DC1/L LCL:		DL:5.00E+01	pCi/L		OCT:	RPD:	Eu-154	RDL:5.00E			acr.	RPD:
NEW. Dec.		DL:5.00E+01	pc1/L		DCL	RPD:	X-40	RDL: 0.00E			DCL:	RPD:
No. No.		DL:5.00E+01	pCi/L		UCL	RPD:						
PDL:6 DCL:70 UCL:130 RPD:20 RA-226 RDL: DCL/L LCL:70 UCL:130 RDL: DCL/L LCL:70 UCL:130 RPD:20 RA-228DA RDL: DCL/L LCL:70 UCL:130 RDL: DCL/L LCL:70 UCL:130 RPD:20 RA-228DA RDL: DCL/L LCL:70 UCL:130 RDL: DCL/L LCL:70 UCL:130 RPD:20 RA-228DA RDL: DCL/L LCL:70 UCL:130 RDL: DCL/L LCL:70 UCL:130 RPD:20 RA-228DA RDL: DCL/L LCL:70 UCL:130 RDL: DCL/L LCL:70 UCL:130 UCL:130 RDL: DCL/L RDL/L RDL/L RDL/L RDL/L RDL/L RDL/L RDL: DCL/L LCL:70 UCL:130 UCL:130 RDL: DCL/L RDL/L RDL/L RDL/L RDL/L RDL/L RDL/L RDL/L RDL/L RDL/L RDL DCL/L RDL/L RDL		01:15	DCi/L	35	DCL:130	RPD: 20	CR-137D		ŗ		11.130	200.20
NDL: DC1/L LCL:70 UCL:130 RPD:20 RA-228DA RDL: DC1/L LCL:70 UCL:130 NDL: DC1/L LCL:70 UCL:130 RPD:20 RDL: DC1/L LCL:70 UCL:130 RPD:20 Calc Info:		DL:6	DC1/L		UCL:130	RPD: 20	Ra-226		2		DCT. 130	RPD: 20
Calc Info: calc Info: evel (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B evel (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B Approved By		DL:	DC1/L		UCL:130	RPD:20	RA-228D	22	, a		UCL: 130	RPD: 20
Calc Info: svel (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B svel (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B Approved By		DL:	pci/L		DCL:130	RPD: 20						
evel (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B evel (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B Approved By	MKW31AJ-SAMP C	alc Info:										
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Decay to Sabt: Y Blk Subt.: N Sci.Not.: Y ODRS: B Approved By	MSF81AC-LCS:											
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N							Approve	NG BV			Date	
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				4								

TAL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 2 Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

ISV - Insufficient Volume for Analysis

WO Cnt: 4 Prep_SamplePrep v4.8.32 6/6/2008 10:04:44 AM

ICOC Fraction Transfer/Status Report ByDate: 6/7/2007, 6/11/2008, Batch: '8134490', User: 'ALL Order By DateTimeAccepting

Q Batch Wo	rk Ord CurStat	us	Accepting		Comments
8134490					
AC	Rev1C	BockJ	6/5/2008 9:03:5	6 AM	
SC		wagarr	IsBatched ·	5/14/2008 10:29:16 AM	ICOC_RADCALC v4.8.32
SC		BockJ	Prep2C	6/5/2008 9:03:56 AM	RICH-RC-5017 REVISION 6
SC		BlackCL	InCnt1	6/5/2008 9:14:11 AM	RICH-RD-0007 REVISION 6
SC		BlackCL	CalcC	6/5/2008 4:10:38 PM	RICH-RD-0007 REVISION 6
SC		nortonj	Rev1C	6/6/2008 10:04:36 AM	RICH-RC-0002 REV 8
AC		BlackCL	6/5/2008 9:14:1	1 AM	
AC		BlackCL	6/5/2008 4:10:3	8 PM	
AC		nortonj	6/6/2008 10:04:	36	

AU: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Page 1

Grp Rec Cnt:4 ICOCFractions v4.8.33

E 6/2/2008 12:41:27 PM	Sample Preparation/Analysis	ration/Analy	sis		Balance Id	Balance Id:1120482733
384868, Pacific Northwest National Laboratory ,	BN I-129 Prp/SepRC5025				Pipet #:	
(205392	IB Gamma by LEPD 5I CLIENT: HANFORD				Sep1 DT/Tm Tech:	-
Batch: 8134494 WATER pCI/L	PM, Qu	PM, Quote: SS, 57671		i i	Sep2 DT/Tm Tech:	
TEC DAICH, 1651. NOIS					Prep Tech: ,LucasD	:,LucasD
Work Order, Lot, Total Initial Aliquot Sample DateTime Amt/Unit Amt/Unit	QC Tracer Dish Prep Date Size	^	_	stor.	Count On Off (24hr) Circle	CR Analyst, Comments:
1 KME2Q-1-AA 3870.20g,in J8E010326-1-SAMP	ITA7278 05/21/08	37.9 (4	(00mm	12	\$ 251	de 30/2/0
	L,2X4LP #Containers: 3				Alpha: -3.48E-04 uCi/Sa	Beta: 9.1\$E-04 uCl/Sa
2 KME2Q-1-AC-X 3878.30g,in J8E010326-1-DUP		35.0		700	" 192 "	
04/29/2008 08:00 Amiflec: 20ML2X4LP	L,2X4LP #Containers: 3			Scr.	Alpha: -3.48E-04 uCi/Sa	Beta: 9.18E-04 uCi/Sa
3 KME2T-1-AA 3884.00g,in J8E010326-2-SAMP	1TA7280 05/21/08	33.2		1 2'	1930	
04/29/2008 08:00 AmfRec: 20ML	AmtRec: 20ML,2X4LP #Containers: 3			Scr.	Alpha: -4.88E-04 uCi/Sa	Beta: 7.42E-04 uCi/Sa
4 KMK25-1-AE 3810.10g,in J8E050216-3-SAMP	1TA7281 05/21/08	33.6		27	1816	
05/05/2008 11:01 AmtRec: 20ML	AmtRec: 20ML,2XLP,2X4LP #Containers: 5			Scr.	Alpha: 7.08E-04 uCi/Sa	Beta: 1.55E-04 uCi/Sa
- 5 KMK3R-1-AE 3857.50g,in J8E050216-4-SAMP	1TA7282 05/21/08	35.6		77	2138	a
05/05/2008 13:07 AmtRec: 20ML,5XLP,2X4LP	L,5XLP,2X4LP #Containers: 8			Scr.	Alpha: 3.29E-04 uCi/Sa	Beta: 6.31E-04 uCi/Sa
	ITA7283 05/21/08	35.8		57	15.10	4
05/06/2008 09:24 AntRec: VIAL2	AmtRec: VIAL20,3XLP,2X4LP #Containers: 6			Scr.	Alpha: -5.94E-04 uCi/Sa	Beta: 6.74E-04 uCi/Sa
		36.3		2	2/6	6/6/2
04/29/2008 08:00 Amthec #Co	#Containers: 1		D	Sor.	Alpha:	Beta:
TAL Richland Key: In - Initial Amt. Richland Wa. pd - Prep Dt, r-	fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added	Page 1	ISV - Insuffic	sient Volume	ISV - Insufficient Volume for Analysis	WO Cnt: 7 Prep_SamplePrep v4.8.32
Key:	#Containers: 1 #Containers: 1 ted Amt, s1 - Sep1, s2 - Sep2 iment Cell, ct-Cocktailed Added	Page 1	ISV - Insuffic	Scr.	Alpha: for Analysis	

6/2/2008 12:41:29 PM		Samp	e Prepar	Sample Preparation/Analysis	lvsis		Ralea	Ralance Id-1120/482722	
		RN L-129 Drn/SenBC5025	C5025				200	e Iu. I Z040Z/33	
		TB Gamma by LEPD	0.00				Į,	Pipet #:	
AnalyDueDate: 06/16/2008		51 CLIENT: HANFORD	ORD				Sep1 DT/Tm Tech:	ech:	
D Batch: 8134494 V SEQ Batch, Test: None	PCI/L						Sep2 DT/Tm Tech:	ech:	
							Prep T	Prep Tech: ,LucasD	
Work Order, Lot, Total Sample DateTime Amt/Unit	Initial Aliquot Amt/Unit	OC Tracer Prep Date	Dish	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
· 8 KM5GM-1-AC-C	3988.50g,in	ISD0849 04/22/08		31.3	100mg	77	216	6166	
	AmtRec:				-	Sor	Alpha:		Beta:
Comments:									
All Clients for Batch: 384868, Pacific Northwest National Laboratory	ational Laborator	Pacifi	thwest Nat	c Northwest National Lab,	ss , 57671				
Constituent List RDL:1.00E+00	pci/L LCL:	UCL: RE	RPD:						
I-129 RDL:1.00E+00 pc	pci/r rcr:	UCL: RE	RPD:						
RDL: 5	pci/L LCL:70	UCL:130 RI	RPD: 20						
	Decay to Sabt: Y	Blk Subt.: N	Sci.Not.: Y		ODES: B				
Uncert Level (#s).: 2 KM5GM1AC-LCS:	Decay to Sabt: Y	Blk Subt.: N	Sci.Not.: Y		ODRs: B				
svel (#s).: 2	Decay to Sabt: Y	Blk Subt.: N	Sci.Not.: Y		ODRs: B				
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TAL Richland Key: In - Initial Amt,	fi - Final Amt, di - Di - Reference Dt, ec-Enri	In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added	7000	Page 2	I- VSI	Insufficient Volu	ISV - Insufficient Volume for Analysis	Prep	WO Cnt: 8 Prep_SamplePrep v4.8.32

6/9/2008 7:30:03 AM

ICOC Fraction Transfer/Status Report ByDate: 6/10/2007, 6/14/2008, Batch: '8134494', User: 'ALL Order By DateTimeAccepting

2 Batch World	k Ord CurStat	us A	ccepting		Comments
8134494		-			
4C	Rev1C	LucasD	6/2/2008 12:14	44 PM	
SC		wagarr	IsBatched	5/14/2008 10:29:16 AM	ICOC_RADCALC v4.8.32
SC		LucasD	InPrep	6/2/2008 12:14:44 PM	RICH-RC-5015 Revision 6
SC		BostedD	InPrep2	6/5/2008 7:37:55 AM	RICHRC5025 REVISION 4
SC		BostedD	Prep2C	6/5/2008 5:07:42 PM	RICHRC5025 REVISION 4
SC		DAWKINSO	InCnt1	6/5/2008 6:08:43 PM	RICH-RD-0007 REVISION 6
SC		BlackCL	CalcC	6/6/2008 7:36:48 AM	RICH-RD-0007 REVISION 6
SC		nortonj	Rev1C	6/9/2008 7:29:56 AM	RICH-RC-0002 REV 8
IC		BostedD	6/5/2008 7:37:5	5 AM	
AC .		BostedD	6/5/2008 5:07:4	2 PM	
4C		DAWKINSO	6/5/2008 6:08:4	3 PM	
AC		BlackCL	6/6/2008 7:36:4	8 AM	
AC .		nortonj	6/9/2008 7:29:5	6 AM	

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 6 ICOCFractions v4.8.33

0/3/2000 4.33.23 PM	Sample Preparation/Analysis	alysis		balance	Balance Id:1120482733	
384868, Pacific Northwest National Laboratory , BN 1-129 P	025			Pipe	Pipet #:	
AnalyDueDate: 06/20/2008 MS AnalyD	Ω.			Sep1 DT/Tm Tech:	ch:	
Batch: 8134493 WATER pCi/L	PIM, Quote: SS, 57671	671		Sep2 DT/Tm Tech:	Ġ.	8
		=		Prep Te	Prep Tech: ,HarrisD	
Work Order, Lot, Total Initial Aliquot QC Tracer Sample Date Time Amt/Unit Ant/Unit Prep Date	Dish Ppt or Size Geometry	_		Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KMNDL-1-AE 500.10g,in ITA7289	35.1	3	5	8160	C/2/2	
Amifec: 2X500MLP,2XLP,2X4LP	Containers: 6		Sor	Alpha: 1.03E-03 uCi/Sa		Beta: -7.81E-04 uCi/Sa
лн-х 500.10g -bup	36.9		6)	2880	6/605	5_
05/06/2008 12:34 AmiRec: 2X500MLP,2XLP,2X4LP #Co	#Containers: 6		Scr.	Alpha: 1.03E-03 uCi/Sa		Beta: -7,81E-04 uCi/Sa
500.30g,in ITA7291 05/21/08	36.3	-	hγ	3580		
05/06/2008 12:34 **Containers: 1			Scr.	Alpha:		Beta:
4 KN5GK-1-AC-C 500.20g,in ISB0284 JBE130000-493-LCS 05/06/08	S.N.		<u>7</u> 7	See		
05/06/2008 12:34 #Containers: 1			Scr	Alpha:		Beta:
comments: DLH (a)08				¥ ···		
All Clients for Batch: 384868, Pacific Northwest National Laboratory Pacific North	c Northwest National Lab,	88 , 57671				
EMENDLIAE-SAMP Constituent List: I-129 RDL:5.00E+00 pCi/L LCL:70 UCL:130 RPD:20	20		S			
RDL:5.00E+00						
I-129 RDL:5 pC1/L LCL:70 UCL:130 RPD:20 KWNDL1AE-SAMP Calc Info:	20					
TAL Richland Key: In - Initial Amt, fill - Final Amt, dilloted Amt, s1 - Sep1, s2 - Sep2	Sep2 Page 1	I - NSI	ISV - Insufficient Volume for Analysis	ne for Analysis	Prep	WO Cnt: 4 Prep SamplePrep v4 8 32
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5/3/2008 4:33:26 F	Σ		Sampl	Sample Preparation/Analysis	tion/An	alysis		Balanc	Balance Id:1120482733	
			BN I-129 Prp/SepRC5025	C5025				ā	Pipet #:	
저 금 AnalyDueDate: 06/20/2008	/20/2008		SI CLIENT: HANFORD	ORD				Sep1 DT/Tm Tech:	Tech:	
Satch: 8134493		PCI/L						Sep2 DT/Tm Tech:	Tech:	
Led Dater, 169t. NOI	D							Prep	Prep Tech: ,HarrisD	
Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry		Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
Uncert Level	(#s).: 2	Decay to Sabt: Y	Blk Subt.; N	Sci.Not.:	¥	ODRs: B			22	
OMSGRIAA-BLK: Uncert Level	(#s).: 2	Decay to Sabt: Y	Blk Subt.: N	Sci.Not.:	×	ODRs: B				
CMSGKIAC-LCS: Uncert Level	(#s).: 2	Decay to Sabt: Y	Blk Subt.: N	Sci.Not.: Y		ODRs: B				
					Approved By	d By		3	Date:	
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TAL Richland K	Key: In - Initial Amt,		fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2		Page 2	- NSI	Insufficient Vol	ISV - Insufficient Volume for Analysis		WO Cnt: 4

Richland Wa.

pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

Prep_SamplePrep v4.8.32

6/9/2008 7:43:18 AM

ICOC Fraction Transfer/Status Report ByDate: 6/10/2007, 6/14/2008, Batch: '8134493', User: *ALL Order By DateTimeAccepting

Ord CurStat	us A	ccepting		Comments
Rev1C	HarrisD	6/3/2008 4:30:0	9 PM	
	wagarr	IsBatched	5/14/2008 10:29:16 AM	ICOC_RADCALC v4.8.32
	HarrisD	InPrep	6/3/2008 4:30:09 PM	RICH-RC-5015 Revision 6
	HarrisD	Prep1C	6/3/2008 4:33:27 PM	RICH-RC-5017 REVISION 6
	BostedD	InPrep2	6/5/2008 7:37:41 AM	RICHRC5025 REVISION 4
	BostedD	Prep2C	6/5/2008 5:07:51 PM	RICHRC5025 REVISION 4
	DAWKINSO	InCnt1	6/5/2008 6:08:37 PM	RICH-RD-0007 REVISION 6
	BlackCL	CalcC	6/6/2008 9:23:26 AM	RICH-RD-0008 REVISION 4
	nortonj	Rev1C	6/9/2008 7:40:13 AM	RICH-RC-0002 REV 8
	HarrisD	6/3/2008 4:33:2	7 PM	
	BostedD	6/5/2008 7:37:4	1 AM	
	BostedD	6/5/2008 5:07:5	51 PM	
	DAWKINSO	6/5/2008 6:08:3	37 PM	
	BlackCL	6/6/2008 9:23:2	26 AM	
	nortonj	6/9/2008 7:40:1	3 AM	
	Alleria -	Rev1C HarrisD wagarr HarrisD HarrisD BostedD BostedD DAWKINSO BlackCL nortonj HarrisD BostedD BostedD DAWKINSO BlackCL	Rev1C HarrisD 6/3/2008 4:30:0 wagarr IsBatched HarrisD InPrep HarrisD Prep1C BostedD InPrep2 BostedD Prep2C DAWKINSO InCnt1 BlackCL CalcC nortonj Rev1C HarrisD 6/3/2008 4:33:2 BostedD 6/5/2008 7:37:4 BostedD 6/5/2008 5:07:5 DAWKINSO 6/6/2008 6:08:3 BlackCL 6/6/2008 9:23:2	Rev1C HarrisD 6/3/2008 4:30:09 PM wagarr IsBatched 5/14/2008 10:29:16 AM HarrisD InPrep 6/3/2008 4:30:09 PM HarrisD Prep1C 6/3/2008 4:33:27 PM BostedD InPrep2 6/5/2008 7:37:41 AM BostedD Prep2C 6/5/2008 5:07:51 PM DAWKINSO InCnt1 6/5/2008 6:08:37 PM BlackCL CalcC 6/6/2008 9:23:26 AM nortonj Rev1C 6/9/2008 7:40:13 AM HarrisD 6/3/2008 4:33:27 PM BostedD 6/5/2008 7:37:41 AM BostedD 6/5/2008 5:07:51 PM DAWKINSO 6/5/2008 6:08:37 PM BlackCL 6/6/2008 9:23:26 AM

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.



***RE-COUN DUE DATE	es care transfer	
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SAMPLE DELIVE	ERY GROUP <u>w</u>	105392
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NEW BATCH NU	MBER 8 55	308
LAB SAMPLE ID	CLIENT ID	REASON FOR REQUEST & ANALYSIS COMMENTS
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RC-126, 12/07, Rev 5

384868, Pacific Northwest National Laboratory Pacific Northwest National Lab	3000	SS Technetium-99 by Liquid Scint	Scint	Sie		Balance Id: Pipet #:	# #	
표 ManalyDueDate: 06/19/2008		51 CLIENT: HANFORD				Sep1 DT/Tm Tech:	ë	
Batch: 8155308 WATER SEQ Batch, Test: None	pCI/L	PM, QL	PM, Quote: SS, 57671	1	X	Sep2 DT/Tm Tech:	<u>ب</u>	
						Prep Tech:	.	
Work Order, Lot, Total Amt Sample Date /Unit	Total Initial Aliquot Acidified/Unit Amt/Unit	quot Adj Aliq Amt nit (Un-Acidified)	OC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Cor Init/Date	Comments:
1 KMK2R-2-AF								
J8E050216-1-SAMP								
33	AmtRec: 20ML,500MLP,4XLP	MLP,4XLP #Containers: 6	3	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Scr.	Alpha: -2.37E-04 uCi/Sa	Beta: -1.29E-04 uCi/Sa	Ci/Sa
2 KMNDL-2-AF J8E070113-3-SAMP		=						
	AmiRec: 2X500ML	P,2XLP,2X4LP #Containers: 6			Sor:	Alpha: 1.03E-03 uCi/Sa	Beta: -7.81E-04 uCi/Sa	Ci/Sa
SAMP	AmiBer VIA 20 SOMII P AXI P	OMI P 4XI P #Containers: 6			ò	Alnha 1 17E-04 IC/Ra	Bote - 1915 Dail	9
							D 107131	80.00
J8E070115-2-SAMP		DOMLP,4XLP #Containers: 6			Scr.	Alpha: -3.53E-04 uCi/Sa	Beta: 2.26E-04 uCi/Sa	CirSa
5 KMNE3-2-AG-X								
J8E070115-2-DUP		OMLP,4XLP #Containers: 6			Sor	Alpha: -3.53E-04 uCl/Sa	Beta: 2.26E-04 uCi/Sa	CivSa
6 KMNE6-2-AF			9					
JBE070115-3-SAMP		OMLP, 6XLP #Containers: 8			Sor	Alpha: -1.58E-04 uCi/Sa	Beta: -3.19E-05 uCi/Sa	Ci/Sa
7 KMNE6-2-AG-S								
J8E070115-3-MS		OMLP,6XLP #Containers: 8			Sor:	Alpha: -1.58E-04 uCi/Sa	Beta: -3.19E-05 uCi/Sa	CivSa
on								
TAL Richland Key. In - Initial Amt. Richland Wa. pd · Prep Dt, r	In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added	mt, s1 - Sep1, s2 - Sep2	Page 1	ISV - I	ISV - Insufficient Volume for Analysis	ne for Analysis	WO Cnt: 7	nt: 7 ICOC v4.8.32

FP T-08 PTpSepFCS665 Pipet #:									
Signature Sign			FP Tc-99 Pro/SepR(59065					
Total	J H		S5 Technetium-99 t	y Liquid Scint			Pipet	:	
	nalyDueDate: 06/19/2008		SI CLIENT: HANFO	20			Sept DT/Tm Tech	u u	
	latch: 8155308	PCI/L					Sep2 DT/Tm Tech	2	
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		_	Adj Ali (Un-A	4 Amt QC Trace	te Time N	it Detector Ain Id		CR Analyst, init/Date	Comments:
	KM5HD-2-AA-B								
######################################	3E130000-500-BLK								
######################################	5/06/2008 07:30	Amthec:	#Containers: 1			Sor	Aloha:		Retar
iners: 1 C Morthwest Mational Lab, SS , 57671 IM Sci.Not.: Y ODRs: B IN Sci.Not.: Y ODRs: B IN Sci.Not.: Y ODRs: B IN Sci.Not.: Y ODRs: B IN Sci.Not.: Y ODRs: B	KM5HD-2-AC-C				Ng.				
IMPREST 1 SCT: Alpha: SCT: Al	E130000-500-LCS				8 8 9 1 1 2 2 2 3 3 4 4 5 6 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8				
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Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B fi - Final Amt, di - Diluted Amt, si - Sepi. S-2 - Sepi. Page 2 ISV - Insufficient Volume for Analysis	Comments:								
ational Laboratory Pacific Morthwest National Lab, SS , 57671 Decay to Sabt: Y Blk Subt.: N Sci.Not.: Y ODRs: B fi-Final Amt, di-Diluted Amt, S1 - Sep1, S2 - Sep2 Page 2 ISV - Insufficient Volume for Analysis									
Decay to Sabt: Y Blk Subt.: N Sci.Not.: Y ODRs: B fi-Final Amt, di Diluted Amt, s1 - Sep1, s2 - Sep2 Page 2 ISV - Insufficient Volume for Analysis									
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The sabe of the sa	1 Clients for Batch:								
Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B fire Final Amt, di Diluted Amt, s1 - Sep1, s2 - Sep2 Page 2 ISV - Insufficient Volume for Analysis	384868, Pacific Northwest	Mational Laboratory	Pacific Nort	hwest National La	88	1671			
The Calcinfor Level (#s).: 2 Decay to Sabt: Y Blk Subt.: N Sci.Not.: Y ODRs: B Level (#s).: 2 Decay to Sabt: Y Blk Subt.: N Sci.Not.: Y ODRs: B Level (#s).: 2 Decay to Sabt: Y Blk Subt.: N Sci.Not.: Y ODRs: B	WZRZAF-SAMP Constituent Lis	įį.							
Calc Info: evel (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B evel (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B Key: In - Initial Amt. fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 2 ISV - Insufficient Volume for Analysis	DE62AG-MS:								
Calc Info: evel (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B evel (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B Key: In - Initial Amt. fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 2 ISV - Insufficient Volume for Analysis	SHD2AA-BLK:								
Calc Info: evel (#s).: 2 Decay to Sabt: Y Blk Subt.: N Sci.Not.: Y ODRs: B evel (#s).: 2 Decay to Sabt: Y Blk Subt.: N Sci.Not.: Y ODRs: B Key: In - Initial Amt. fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 2 ISV - Insufficient Volume for Analysis	SHD2AC-LCS:								
2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B iitial Amt. fi - Final Amt, di - Diluted Amt, st - Sep1, s2 - Sep2 Page 2 ISV - Insufficient Volume for Analysis	SHD2AD-BLK:								
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Key: In - Initial Amt. fi - Final Amt, di - Diluted Amt, st - Sep1, s2 - Sep2 Page 2 ISV - Insufficient Volume for Analysis	Level	Decay to Sabt: Y	Blk Subt.: N	Sci.Not.: Y	ODES: B				
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M6/3/2008 11:36:50 AM		FP Tc-99 Prp/S	Sample Preparation/Analysis Prp/SepRC5065	ration/Anal	ysis		Balance Id: Pipet #:	÷ *	
OueDate: 06/19/200		S5 Technetium-99 by Liquid Scint 51 CLIENT: HANFORD	n-99 by Liquid ANFORD	Scint			Sep1 DT/Tm Tech:	E	
Batch: 8155308 SEQ Batch, Test: None	PCI/L						Sep2 DT/Tm Tech:	ë	
							Prep Tech:	Ë	
Work Order, Lot, Total Amt Sample Date /Unit	mt Total it Acidified/Unit	Initial Aliquot A	Adj Aliq Amt (Un-Acidified)	OC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
OMSHD2AA-BLK: Uncert Level (#s).:	2 Decay to SaDt:	Y Blk Subt.	: N Sci.Not.: Y		ODRs: B				
OMSHD2AC-LCS: Uncert Level (#s).:	: 2 Decay to Sabt:	Y Blk Subt.:	N Sci.Not.: Y		ODRs: B				
CMSHD2AD-BLK: Uncert Level (#s).: 2	: 2 Decay to Sabt:	Y Blk Subt.	: N Sci.Not.: Y		ODRs: B				
				Approved By	By			Dates	
TAL Richland Key: In - Ir	Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2	fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2		Page 3	ISV - Ins	ISV - Insufficient Volume for Analysis	e for Analysis	M	WO Cnt: 10

6/6/2008 10:49:48 AM

ICOC Fraction Transfer/Status Report ByDate: 5/7/2008, 6/7/2008, Batch: '8134500', User: 'All Order by BatchNbr, WorkOrderNbr, DateTimeAccepting

Batch Work	Ord CurState	us A	ccepting		Comments
8134500				-	
4C	InCnt1	LucasD	5/28/2008 10:2	4:25	
SC		wagarr	IsBatched	5/14/2008 10:29:16 AM	ICOC_RADCALC v4.8.32
SC		LucasD	InPrep	5/28/2008 10:24:25 AM	RICH-RC-5016 Revision 7
SC		Barcotl	InPrep	6/2/2008 4:00:15 PM	RICH-RC-5065 REV 6
SC		Barcotl	Prep1C	6/2/2008 4:00:38 PM	RICH-RC-5065 REV 6
SC		DAWKINSO	InCnt1	6/2/2008 4:30:25 PM	RICH-RD-0001 REVISION 4
AC .		Barcoti	6/2/2008 4:00:1	5 PM	
IC		Barcoti	6/2/2008 4:00:3	8 PM	
4 <i>C</i>		DAWKINSO	6/2/2008 4:30:2	5 PM	

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 4 ICOCFractions v4.8.32

	/Analysis Balance Id:1120373922	22
384868, Pacific Northwest National Laboratory , 3		
	Pipet #:	
AlialypueDate: Uo/19/2000 100 100 100 100 100 100 100 100 100		
Batch: 8134499 WATER SEQ Batch, Test: None	S , 57671 Sep2 DT/Tm Tech:	
	Prep Tech: ,LucasD	
Work Order, Lot, Total Initial Aliquot QC Tracer Count Sample DateTime Amt/Unit Prep Date Time Min	_	Comments:
1 KMK36-1-AA 125.52g.in		
	S.	
05/05/2008 11:01 #Containers: 5	Sor: Apha: 3.18E-04 uCi/Sa Be	Beta: -1.00E-04 uCl/Sa
2 KMK36-1-AE-S 125.14g,in TCSG2056		
05/20/08_pd 01/10/05_		
05/05/2008 11:01 #Containers: 5	Scr. Alpha: 3.18E-04 uCuSa Be	Beta: -1.00E-04 uCi/Sa
3 KMK36-1-AF-X 125.45g,in		
J8E050219-1-DUP		
	Scr. Alpha: 3.18E-04 uCi/Sa Be	Beta: -1.00E-04 uCi/Sa
4 KM5HC-1-AA-B 125.18g,in		
J8E130000-499-BLK		
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J8E13000-499-LCS J8E13000-499-LCS O2/18/08.pd O5/05/2008 11:01 Amthe: #Containers: 1	Scr Alaba	Dohr
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J8E130000-499-IBLK	Cor. Alaks.	over C
		Deta.
TAL Richland Key: In Initial Amt. fi - Final Amt, di - Diluted Amt. s1 - Sep1, s2 - Sep2 Page 1 Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added	ISV - Insufficient Volume for Analysis	WO Cnt: 6 Prep_SamplePrep v4.8.32
45		

Comments:

Richland Wa.

pd - Prep Dt. r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

Prep_SamplePrep v4.8.32

6/13/2008 2:34:45 PM

ICOC Fraction Transfer/Status Report ByDate: 6/14/2007, 6/18/2008, Batch: '8134499', User: 'ALL Order By DateTimeAccepting

Q Batch Work	Ord CurStat	us	Accepting		Comments
8134499					
AC	Rev1C	LucasD	5/28/2008 10:3	9:50	
SC		wagarr	IsBatched	5/14/2008 10:29:16 AM	ICOC_RADCALC v4.8.32
SC		LucasD	InPrep	5/28/2008 10:39:50 AM	RICH-RC-5016 Revision 7
SC		Barcoti	InPrep2	6/12/2008 9:07:20 AM	RICH-RC-5078 REVISION 4
SC		Barcotl	Prep2C	6/12/2008 9:07:33 AM	RICH-RC-5078 REVISION 4
SC		ClarkR	InCnt1	6/12/2008 9:14:09 AM	RICH-RD-0001 REVISION 4
SC		BlackCL	CalcC	6/13/2008 6:13:54 AM	RICH-RD-0001 REVISION 4
SC		nortonj	Rev1C	6/13/2008 2:34:38 PM	RICH-RC-0002 REV 8
AC		Barcoti	6/12/2008 9:07:	20	
AC		Barcoti	6/12/2008 9:07	33	
4C		ClarkR	6/12/2008 9:14	09	
AC		BlackCL	6/13/2008 6:13	54	
AC		nortonj	6/13/2008 2:34	38 PM	

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 6 ICOCFractions v4.8.33

#5/14/2008 10:26:52 AM Sample Preparation/Analysis	Sis	Ralance Id: 17	1711100
AR H-3 Pm			}
30			1 20.00
(A SI CLIENT: HANFOR		Sept DI/Im lecn: 5-0	to com
Description of the second of t		Sep2 DT/Tm Tech:	
		Prep Tech:	
	tector Count On Off	Off CR Analyst, e Init/Date	Comments:
1 KME2V-1-AA			
J8E010329-1-SAMP			
	5	April	Deta:
J8E010329-2-SAMP			
05/01/2008 10:38 AmtRec: 20ML,2XLP #Containers: 3	Sor.	Alpha:	Beta:
AMP			
-	SQ:	Apha:	Beta:
J8E010329-4-SAMP	S	Alnha:	Bets:
J8E050200-1-SAMP	SGT	Alphe:	Beta:
J8E050216-1-SAMP	SG	Apha:	Beta:
7 KMK21-1-AA J8E050216-2-SAMP	Sar	Alpha:	Beta:
TAL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1 Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added	ISV - Insufficient Volume for Analysis	e for Analysis	WO Cnt: 7 ICOC v4.8.32
18			

동/14/2008 10:26:52 AM Sample Preparation/Analysis		Balance Id: 174	Shhol
384868, Pacific Northwest National Laboratory , AR H-3 Pri			
	Sep1	Sep1 DT/Tm Tech:	5.28.08m
Batch: 8134497 WATER pCi/L PM, Quote: SS, 57671	Sep2	Sep2 DT/Tm Tech:	
סומ המנין וסטי ויסופ		Prep Tech:	
Work Order, Lot, Total Initial Aliquot QC Tracer Count Detector Sample Date Time Min Id	Count On Off (24hr) Circle	CR Analyst, Ini/Date	Comments:
8 KMK25-1-AA			
P	d		
05/05/2008 11:01 AmiRec: 20ML, 2XLP, 2X4LP #Containers: 5	Sar	Alpha:	Beta:
9 KMK3R-1-AA			
J8E050216-4-SAMP	а		
05/05/2008 13:07 AmtRec: 20ML,5XLP,2X4LP #Containers: 8	Sar.	Alpha:	Beta:
10 KMNC8-1-AA			
J8E070111-1-SAMP			
05/06/2008 12:46 AmtRec: VIAL20,6XLP #Containers: 7	Sar.	Alpha:	Beta:
11 KMNC8-1-AE-X			
J8E070111-1-DUP	į	Alaha	Dodes
Tarrogomera con man		The second	Com
J8E070113-3-SAMP	SG:	Alpha:	Beta:
J8E070115-1-SAMP	SG	Alpha:	Beta:
14 KMNE3-1-AA			
05/06/2008 07:30 AmfRec: VIAL20,500MLP,4XLP #Containers: 6	Scr.	Alpha:	Beta:
TAL Richland Key: In - Initial Amt, fil - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 2	ISV - Insufficient Volume for Analysis	lysis	WO Cnt: 14

Stratum Stra	5/14/2008 10:26:52 AM			Sample Preparation/Analysis	paration/Ar	nalysis		Balance Id:	ShhC
	ATP		AR H-3	Prp/SepRC5007					1
	A AnalyDueDate: 06/16/200	8	III III	ENT: HANFORD			Sep		3808cm
Initial Adjust	D SEO Batch Test: None		CI/L				Sep		
Surgic Late Total Islaid Algout QC Trace Court Delector Court On On On On On On On On								Prep Tech:	
Scr. April Bear Scr. April Scr. April Bear Scr. April Scr. April Scr. April Bear Scr. April	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date		Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:	
	15 KM5G0-1-AA-B								
Marked Action Amples Continent Ser Aphie Bear	J8E130000-497-BLK	=							
	05/06/2008 12:46		AmtRec	#Containers: 1			Sar.	Alpha:	Beta:
	16 KM5G0-1-AC-C J8E130000-497-LCS								
17 KMSG0+4DB 18 KMSG0+4DB 18 KMSG0+4DB 19 K	05/06/2008 12:46	Ī	AmfRec			=	Sq.	Alpha:	Beta:
	17 KM5G0-1-AD-8								
18 18 18 18 18 18 18 18	J8E130000-497-BLK							A STATE OF THE STA	A7.4.**
	18 KM5G0-1-AE-C		AmtHec:	#Containers: 1		a .	SQ:	Apha:	Beta:
	J8E130000-497-LCS		AmBec	#Containers: 1			b	Alpha:	Bets:
	19 KM5G0-1-AF-B								
20 KM5G0-1-4C-B JBE130000-497-BLK JIE	J8E130000-497-BLK		AmRec:	#Containers: 1			Sq.	Apha:	Beta:
	20 KM5G0-1-AG-B						п		
	J8E130000-497-BLK		AmtRec:	#Containers: 1			Sar	Alpha:	Beta:
	21 KM5G0-1-AH-B								
TAL Richland Key: In - Initial Amt, fil - Final Amt, dil - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 3 ISV - Insufficient Volume for Analysis WO C. Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added	J8E130000-497-BLK						è	Ainhe-	Refe.
TAL Richland Key: In - Initial Amt, fl - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 3 ISV - Insufficient Volume for Analysis Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added									
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added	Key	ilial Amt, 11 - Fin	al Amt, di - Diluted Ami	i, s1 - Sep1, s2 - Sep2		I-VSI	nsufficient Volume for A	nalysis	WO Cnt: 21
	Richland Wa.	rep Dt, r - Refere	nce Dt, ec-Enrichment C	cell, ct-Cocktailed Added					ICOC v4.8.32

ICOC v4.8.32 5-38 c80m Comments: WO Cnt: 21 CR Analyst, Init/Date Pipet #: Sep1 DT/Tm Tech: Prep Tech: Balance Id: Sep2 DT/Tm Tech: ISV - Insufficient Volume for Analysis Count On Off (24hr) Circle , 57671 Sample Preparation/Analysis <u>P</u> ODRs: B ODRS: B ODRS: B ODRS: B ODRS: B ODRS: B ODER: B ODRS: B 88 Pacific Northwest National Lab, Count Time Min Sci.Not.: Y Sci.Not.: Y Sci.Not.: Y Sci.Not.: Y Sci.Not.: Y Sci.Not.: Y Sci.Not.: I Sci.Not.: Y Page 4 S6 Tritium by Liquid Scint pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 AR H-3 Prp/SepRC5007 51 CLIENT: HANFORD RPD:20 QC Tracer Prep Date Blk Subt.: N Blk Subt.: N Blk Subt.: N Blk Subt.: N Blk Subt.: N Blk Subt.: N Blk Subt.: N Blk Subt.: N UCL:130 Initial Aliquot Amt/Unit 384868, Pacific Northwest National Laboratory Decay to Sabt: Y Decay to Sabt: Y Decay to Sant: Y Decay to Sabt: Y LCL:70 pCi/L PC1/12 Total Amt/Unit Key: In - Initial Amt, MEZVIAA-SAMP Constituent List: H-3 RDL:400 pd 5/14/2008 10:26:53 AM

AnalyDueDate: 06/16/2008

Batch: 8134497

SEQ Batch, Test: None Uncert Level (#s).: 2 Undert Level (#s).: 2 Uncert Level (#s).: 2 WEZVIAA-SAMP Calc Info: ull Clients for Batch: SEQ Batch, Test: None Work Order, Lot, Sample DateTime SG01AC-LCS: MSG01AD-BLK: MSG01AA-BLK: MSG01AE-LC8: MSG01AA-BLK: MSG01AF-BLK: MSG01AG-BLK: MSG01AH-BLK: Comments: MSG01AC-LCS: MSG01AD-BLK: MSG01AE-LCS: MSG01AF-BLK: MSG01AG-BLK: MSG01AH-BLK: TAL Richland Richland Wa.

Comments: 538 com WO Cnt: 21 Dates CR Analyst, Init/Date Sep1 DT/Tm Tech: Pipet #: Prep Tech: Sep2 DT/Tm Tech: Balance Id: ISV - Insufficient Volume for Analysis Count On | Off (24hr) Circle Detector Id Sample Preparation/Analysis Approved By .. Count Time Min Page 5 S6 Tritium by Liquid Scint Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 AR H-3 Prp/SepRC5007 51 CLIENT: HANFORD QC Tracer Prep Date Initial Aliquot Amt/Unit PC!/L Total Amt/Unit 5/14/2008 10:26:53 AM

AnalyDueDate: 06/16/2008

Batch: 8134497

SEQ Batch, Test: None Work Order, Lot, Sample DateTime TAL Richland

ICOC v4.8.32

pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

Richland Wa.

152

6/6/2008 10:22:13 AM

ICOC Fraction Transfer/Status Report ByDate: 6/7/2007, 6/11/2008, Batch: '8134497', User: 'ALL Order By DateTimeAccepting

Batch Work	Ord CurState	ıs Ad	ccepting		Comments
3134497			**		
IC .	Rev1C	McDowellD	5/28/2008 10:2	5:02	
SC .		wagarr	IsBatched	5/14/2008 10:29:16 AM	ICOC_RADCALC v4.8.32
C		McDowellD	InSep1	5/28/2008 10:25:02 AM	RICH-RC-5007 REVISION 6
C		McDowellD	Sep1C	5/29/2008 1:12:07 PM	RICH-RC-5007 REVISION 6
C		DAWKINSO	InCnt1	5/29/2008 3:55:47 PM	RICH-RD-0001 REVISION 4
C		ClarkR	CalcC	5/31/2008 9:05:44 AM	RICH-RD-0001 REVISION 4
C		nortonj	Rev1C	6/6/2008 10:21:42 AM	RICH-RC-0002 REV 8
C		McDowellD	5/29/2008 1:12	07 PM	
С		DAWKINSO	5/29/2008 3:55	47 PM	
C		ClarkR	5/31/2008 9:05	44	
C		nortonj	6/6/2008 10:21:	42	

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 5 ICOCFractions v4.8.33



RE-ANAL DUE DATE <u>6</u>		EST 	
CUSTOMER <u>PG</u>	PW		
ANALAYSISC	C-14		
MATRIX H2	0		
LOT NUMBER _	18E050216,07	0111,070115	
SAMPLE DELIVI			
OLD BATCH NU	MBER 813 45	18/8157505	
NEW BATCH NU	MBER <u>8161</u>	360	
LAB SAMPLE ID	CLIENT ID	REASON FOR REQU	EST & ANALYSIS COMMENTS
1) ALL	384868	DUPLICATE 1	N+3 00 L
2) 3)			
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LAB QC ID		Assigned with new bate	h.

RC-048, 12/07, Rev 8

6/9/2008 2:43:28 PM		Sample Pr	Sample Preparation/Analysis	Inalysis		Balance Id: 4	All
1384868, Pacific Northwest National Laboratory Pacific Northwest National Lab	. 5S C-1	5S C-14 Prp/SepRC5022 S3 Carbon-14 by Liquid Scint	Scint			Pipet #:	
ManalyDueDate: 06/19/2008	D) IS	51 CLIENT: HANFORD				Sept DT/Im Tech: () -08 And	6.0-00
Batch: 8161360 WATER pCI/L		PM	PM, Quote: SS, 57671	57671		Sep2 DT/Tm Tech:	
Block the state of						Prep Tech:	
Work Order, Lot, Total Sample DateTime Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min		Count On Off (24hr) Circle	Off CR Analyst.	t, Comments:
1 KMK2R-2-AE							
J8E050216-1-SAMP	Amilia III III III III	P 4XI P #Containers 6	4		Ş	Alaber 29 27E.Ou Incides	Boto. 1 200 O. Wiles
2 KMNC8-2-AC					3	BOOD TO THE PROPERTY OF THE PR	1.53E-04 00108
J8E070111-1-SAMP	Amírec: VIAL20,6XLF	#Containers: 7			Scr	Aloha: 3.98E-04 uCi/Sa	Bets: 3.68E-05.uCuSa
3 KMNEL-3-AE							
J8E070115-1-SAMP							
	AmtRec: VIAL20,500N		rs. 6		Scr.	Alpha: 1.17E-04 uCi/Sa	Beta: -1.21E-04 uCi/Sa
J8E070115-1-DUP		=	0	a	č	ANIA TATA TATA	
5 KMNE3-2-AE	A CONTRACT AND A CONT	TO THE PART OF THE	0.0		5	April 1.175-04 00108	Deta: -1.215-04 UOI/08
J8E070115-2-SAMP	Amiflec: VIAL20,500N	### #Containers: 6	18: 6		Ser.	Apha: -3.53E-04 uCi/Sa	Beta: 2.26E-04 uCi/Sa
6 KMNE6-2-AD J8E070115-3-SAMP		IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	c		8	Ainha - 1 58E-04 ucifSa	Rais - 3 105.05 in il/Sa
		1					
J8F090000-360-BLK	AmtRec:	#Containers: 1			Scr.	Арћа:	Beta:
					-		
TAL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2	nt, di - Diluted Amt Jt, ec-Enrichment C	fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Reference Dt, ec-Enrichment Cell, ct-Cocktailed Adde	2 Page 1 ded	- ASI	ISV - Insufficient Volume for Analysis	e for Analysis	WO Cnt: 7 ICOC v4.8.32
5							

pf6/9/2008 2:43:29 PM			Sample	Sample Preparation/Analysis	Analysis		Balance Id: (1)	V
STA		5S C-1	5S C-14 Prp/SepRC5022	022			Pipet #:	
M		S3 Carbon-1	bon-14 by Liq	4 by Liquid Scint			1	
ManalyDueDate: 06/19/2008		51 CLI	51 CLIENT: HANFORD	Q			Sep1 DT/Tm Tech: 6''	6-10-58 2n
Batch: 8161360 SEQ Batch, Test: None	PCI/L						Sep2 DT/Tm Tech:	
		5					Prep Tech:	
Work Order, Lot, Total Sample DateTime Amt/Unit		Initial Aliquot Amt/Unit	QC Tracer Prep Date	\vdash	Detector 1d	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 KPLMH-1-AC-C								
J8F090000-360-LCS								
	Amthec: #Containers: 1	Rec:	#Containers: 1		00000	Scr.	Alpha:	Beta:
9 KPLMH-1-AD-BN								
J8F090000-360-IBLK			Containers 1			Je	Alaba	0
03/03/2008 11:33	DIE.	iet.	FCOINGINEES, 1			. oct.	Alpha:	Belä:
All Clients for Batch: 384868, Pacific Northwest National	National Laboratory		Pacific North	ic Northwest National Lab,	ab, ss , 57671			
THE COURT COURT CASE	3							
KPLMHIAA-BLK:								
KPLMH1AC-LCS:								
KPIMHIAD-IBLK:								
KONKZRZAE-SAMP Calc Info: Uncert Level (#s):: 2	Decay to Sabt: Y		Blk Subt.: N	Sci.Not.: Y	ODES: B			
KPIMHIAA-BIK: Uncert Level (#s).: 2	Decay to Sabt:	*	Blk Subt.: N	Sci.Not.: Y	ODRS: B			
Uncert Level (#s).: 2	Decay to Sabt:	H	Blk Subt.: N	Sci.Not.: Y	ODRS: B		280	
Uncert Level (#s).: 2	Decay to Sabt: Y		Blk Subt.: N	Sci.Not.: Y	ODRS: B			
				Appr	Approved By		Date:	
TAI Birbland Kow In Justicel Amet		in Church	Ca track		NSI	own Moleculary	Arealonia	o ta O OM
Vey.	1000	- Enrichment C	III - Final Ami, di - Diluted Ami, si - Sept. , sz - Sepz. Reference Dt, ec-Enrichment Cell, ct-Cocktailed Adde	Sepz Page 2	VO	ISV - Insumicient Volume for Analysis	of Analysis	VO CIII. 9 ICOC v4.8.32

6/17/2008 1:34:00 PM

ICOC Fraction Transfer/Status Report ByDate: 6/18/2007, 6/22/2008, Batch: '8161360', User: 'ALL Order By DateTimeAccepting

Batch Wo	ork Ord CurStatu	is A	ccepting		Comments
8161360					
AC	Rev1C	McDowellD	6/10/2008 8:26	:10	
SC		nortonj	IsBatched	6/9/2008 2:43:26 PM	ICOC_RADCALC v4.8.32
SC		McDowellD	InSep1	6/10/2008 8:26:10 AM	RICH-RC-5022 REVISION 3
SC		McDowellD	Sep1C	6/16/2008 1:53:29 PM	RICH-RC-5022 REVISION 3
SC		BlackCL	InCnt1	6/16/2008 2:09:14 PM	RICH-RD-0001 REVISION 4
SC		BlackCL	CalcC	6/17/2008 7:08:22 AM	RICH-RD-0001 REVISION 4
SC .		nortonj	Rev1C	6/17/2008 1:33:52 PM	RICH-RC-0002 REV 8
IC		McDowellD	6/16/2008 1:53	29 PM	
AC .		BlackCL	6/16/2008 2:09	:14 PM	
4C		BlackCL	6/17/2008 7:08	22	
AC		nortonj	6/17/2008 1:33	52 PM	

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Page 1

Grp Rec Cnt:5 ICOCFractions v4.8.33

E 6/20/2008 2:35:41 PM			Callibra	Sallipie riepalalloll/Allalysis	Analysis		Balance	Balance Id:1120482733	m
384868, Pacific Northw	384868, Pacific Northwest National Laboratory		DH UNAt Laser ProRC5015	015)		i		
Pacific Northwest National Lab	nal Lab	•	SS Total Uranium by KPA				Pipet #:	#	
AnalyDueDate: 06/15	9/2008	51 CLI	51 CLIENT: HANFORD				Sep1 DT/Tm Tech:	Ä	
Batch: 8134496 WATER	WATER ug/L All Tests: 8134496 DHSS 8134499 AMSS	/L SS 8134499 AMS5	Md	PM, Quote: SS, 57671	57671		Sep2 DT/Tm Tech:	Ä	
							Prep Tec	Prep Tech: ,LucasD	
Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On J Off (24hr) Circle	_	CR Analyst, Init/Date	Comments:
1 KMK36-1-AC		25.70g,in							
J8E050219-1-SAMP									
05/05/2008 11:01		AmtRec: 20ML,500MLP,3XLP	P,3XLP #Containers: 5	% 5		Sa:	Alpha: 3.18E-04 uCi/Sa		Beta: -1.00E-04 uCi/Sa
2 KMK36-1-AD-S J8E050219-1-MS		25.80g,in	UNSF4221 05/22/08.pd						
05/05/2008 11:01		Amiflec: 20ML,500MLP,3XLP	P,3XLP #Containers: 5	10.00		Sar	Alpha: 3.18E-04 uCi/Sa	Be	Beta: -1.00E-04 uCVSa
3 KMNDL-1-AG		25.80g,in							
J8E070113-3-SAMP			=						
05/06/2008 12:34	. 1	AmtRec: 2X500MLP,2)	KLP,2X4LP #Containers: 6	ers: 6		Sgr	Alpha: 1.03E-03 uCi/Sa	Be	Bela: -7.81E-04 uCi/Sa
4 KMNDL-1-AJ-X		25.80g,in							
J8E070113-3-DUP			KLP 2X4LP #Containers: 6	ers: 6		Sar	Alpha: 1.03E-03 uCl/Sa	8	Beta: -7.81E-04 uCVSa
5 KM5GV-1-AA-B		25.00g.in		A					
J8E130000-496-BLK			#Containers: 1			SGT	Alpha:		Beta:
6 KM5GV-1-AC-C		25.00g,in	UNSF4222						
J8E130000-496-LCS		-11	US/ZZ/08.pd			Sar	Alpha:		Beta:
7 KM5GV-1-AD-C		25.20g,in	UNSC2514						
						į	Alaba.		Dote
	1								
TAL Richland Key: I	Key: In - Initial Amt, fil - Final A	fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2	s1 - Sep1, s2 - Sep;	2 Page 1	- VSI	ISV - Insufficient Volume for Analysis	e for Analysis		WO Cnt: 7
. Richland Wa	nd - Dran Dt r - Reference Dt ac Endohment Cell of Charlesiled Added	Dr oc Endobmont Co	of Cookfailed Ade	107					CC 0 17 JOJI

			Called	Sample Preparation/Analysis		alysis		Balance Id:1120482733	82733
		古	DH UNAt_Laser PrpRC5015	pRC5015				Pipet #:	100 M
MAnalyDueDate: 06/19/2008		SS II	SS Total Uranium by KPA 5I CLIENT: HANFORD	by KPA ORD			8	Sep1 DT/Tm Tech:	
Batch: 8134496 SEQ Batch, Test: None		ng/L					Š	Sep2 DT/Tm Tech:	
								Prep Tech: ,LucasD	SD
Work Order, Lot, To To Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	te Tim	Count Time Min	Detector Id		CR Analyst, Init/Date	Comments:
Comments:									
ll Clients for Batch: 384868, Pacific Northwest Mational Laboratory	st Mational	Laboratory	Pacific No.	Northwest Nati	National Lab,	. 88 , 57671	п		
DER361AC-SAMP Constituent List: Dranium RDL:1.44E-01 u DR361AD-MS Constituent List:	ist: ug/L t:	ICLE	מכני: או	RPD:					
MSGVIAA-BLK: Dranium RDL:1.44E-01	1/Sn	rer:	UCL: RI	RPD:					
Dranium RDL:0.144343	1/5n	LCL:70	UCL: 130 RI	RPD:20					
Uranium RDL:0.144343	1/Sn	LCL: 70	UCL:130 RI	RPD:20					
DEGLIAC-SAMP Calc Info: Uncert Level (#s):: 2 MESGIAD-MS Calc Info:	Decay to	Decay to Sabt: Y	Blk Subt.: N	Sci.Not.: Y		ODRs: B			
	Decay to	Decay to Sabt: Y	Blk Subt.: N	Sci.Not.:	×	ODRs: B			
Uncert Level (#s).: 2	Decay to	Decay to Sabt: Y	Bik Subt.: N	Sci.Not.:	×	ODRs: B			
MSGVIAC-LCS: Uncert Level (#s).: 2	Decay to	Decay to Sabt: Y	Blk Subt.: N	Sci.Not.: Y		ODRs: B			
Undert Level (#s).: 2	Decay to	Decay to Sabt: Y	Blk Subt.: N	Sci.Not.:	×	ODRs: B			
					Approved By	d By		Dec	Date:
TAL Richland Key: In - Initial Amt,		fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2	Amt, s1 - Sep1, s2		Page 2	· NSI	ISV - Insufficient Volume for Analysis	Analysis	WO Cut: 7
Pichland Ma	Deference	a Dt ac-Enrichma	nd - Pren Dt. r Reference Dt. ac-Enrichment Cell. ct-Cocktailed Added						ICOC v4 8 32

6/20/2008 10:11:11 AM

ICOC Fraction Transfer/Status Report ByDate: 6/21/2007, 6/25/2008, Batch: '8134496', User: 'ALL Order By DateTimeAccepting

Batch Work Ore	d CurState	us	Accepting		Comments
3134496					
IC .	Rev1C	LucasD	6/2/2008 11:07	:11	
SC .		wagarr	IsBatched	5/14/2008 10:29:16 AM	ICOC_RADCALC v4.8.32
SC .		LucasD	InPrep	6/2/2008 11:07:11 AM	RICH-RC-5015 Revision 6
SC .		BockJ	InPrep2	6/11/2008 9:05:15 AM	RICH-RC-5015 REVISION 6
SC .		BockJ	Prep2C	6/12/2008 12:15:20 PM	RICH-RC-5015 REVISION 6
SC .		NelsonT	Cnt1C	6/12/2008 2:39:26 PM	RICH-RC-5058 REV 7
C		nortonj	Rev1C	6/13/2008 12:56:20 PM	RICH-RC-0002 REV 8
C		BockJ	6/11/2008 9:05	:15	
C		BockJ	6/12/2008 12:1	5:20	
C		NeisonT	6/12/2008 2:39	26 PM	
C		nortonj	6/13/2008 12:5	6:20	

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

			•			
384868. Pacific Northwest National Laboratory Pacific Northwest National Lab	88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION EA Chromium. Hexavalent (7196A)	RATION PERFOR	MED / DIRECT	INJECTION	Pipet #:	
AnalyDueDate: 06/19/2008	SI CLIENT: HANFORD	(1)		Š	Sep1 DT/Tm Tech:	
3atch: 8126529 WATER mg/L SEO Batch Test: None All Tests: 8126529 88EA.		PM, Quote: SS, 57671	1421	Se	Sep2 DT/Tm Tech:	
					Prep Tech:	
Work Order, Lot. Total Sample Date Time Amt/Unit	Initial Aliquot QC Tracer Amt/Unit Prep Date	Count Time Min		Count On Off (24hr) Circle	CR Analyst. Init/Date	Comments:
1 KMKW3-1-AA						
		· · · · · · · · · · · · · · · · · · ·	1			
05/05/2008 10:15	AmiPlec: 20ML,500G,5XLP #Containers: 7	7		Scr.	Alpha:	Beta:
2 KMKW3-1-AF-S JBE050200-1-MS						
05/05/2008 10:15 AmiRec: 20ML,5006,5XLP	AmtRec: 20ML,500G,5XLP #Containers: 7	7		Sor.	Alpha:	Beta:
3 KMKW3-1-AG-D						
J8E050200-1-MSD				c		
	Antitract. Completon and antitraction of the contraction of the contra			50	Apria	Gela:
J8E050200-1-DUP	AmtRec: 20ML,500G,5XLP #Containers: 7	7		Scr.	Apha:	Beta
5 KMK1N-1-AA-B	ı					
J8E050000-529-BLK 				Scr:	Alpha:	Beta:
6 KMK1N-1-AC-C						
	AmBar #Container:1			. Co	Alcha	Doto
	Total for.			j.	Alpita.	Della.
TAL Richland Key In Initial Amt. 1i - Final Am	In Initial Amt. 1i - Final Amt. di · Diluted Amt, s1 - Sept., s2 · Sep2	2 Page 1	ul VSI	ISV Insufficient Volume for Analysis	Analysis	WO Cnt: 6

	Sality Freparation Milary Salance Id:	
AT AnalyDueDate: 06/19/2008	IRECT INJECTION Sept E	
Batch: 8126529 SEO Batch, Test: None	mg/L Sep2 DT/Tm Tech:	
	Prep Tech:	
Work Order, Lot, Total Sample DateTime Amt/Unit	Initial Aliquot OC Tracer Count Detector Count On Off CR Analyst, Amt/Unit Prep Date Time Min Id (24hr) Circle Init/Date	Comments:
DEWNIAA-SAMP Constituent List:	clonal Laboratory Pacific Northwest National Lab, SS , 57671	3
DEW31AF-MS Constituent List:		
DIKW31AG-MSD:		
OCTINIAA-BLK:		
OFFINIAC-LCS:		
OGENV31AA-SAMP Calc Info: Uncert Level (#s).: 2 D OGENV31AF-MS Calc Info: Uncert Level (#s).: 2 D OGENV31AG-MSD: Uncert Level (#s).: 2 D OGENTA-BIK:	Y Blk Subt.: N Sci.Not.: Y ODRs: Y Blk Subt.: N Sci.Not.: Y ODRs: Y Blk Subt.: N Sci.Not.: Y ODRs:	
4 74	Decay to Sabt: Y Blk Subt.: N Sci.Not.: Y ODRs: B	
	Approved By	•
1AL Richland Key. In - Indial Amt.	In Initial Amt. It Final Amt. di Diluted Amt, s1 · Sep1. s2 · Sep2 Page 2 ISV Insufficient Volume tor Analysis WO	WO Cnt: 6